

## Estudio para análisis de falla EAF 333/2023

"Falla en línea 110 kV El Edén - Alto del Carmen"

Fecha de Emisión: 28-08-2023

### 1. Descripción general de la interrupción

#### a. Fecha y Hora de la falla

Fecha	05/08/2023
Hora	14:14
Consumos desconectados (MW)	0.70
Demanda previa del sistema (MW)	10362.0
Porcentaje de desconexión	0.007 %
Calificación Apagón	No aplica (porcentaje de desconexión < 10%)

#### b. Identificación instalación afectada

Nombre de la instalación	Línea 110 kV El Edén - Alto del Carmen / LT148-----T058
Tipo de instalación	Línea
Tensión nominal	110 kV
Segmento	Transmisión zonal
Propietario instalación fallada	CGE Transmisión S.A.
RUT	77.465.741-K
Representante Legal	Iván Arístides Quezada Escobar
Dirección	Av. Presidente Riesco N° 5561 P14, Las Condes, Santiago, Chile.

#### c. Identificación del elemento fallado

Nombre del elemento afectado	Línea 110 kV El Edén - Alto del Carmen, tramo 110 kV Tap Río Huasco - Alto del Carmen / LT148CI1TR02----T058
Propietario elemento fallado	CGE Transmisión S.A.
RUT	77.465.741-K
Representante Legal	Iván Arístides Quezada Escobar
Dirección	Av. Presidente Riesco N° 5561 P14, Las Condes, Santiago, Chile.

### d.1 Origen y causa de la falla

Se produjo la apertura automática del interruptor 52H1 de S/E El Edén, asociado a la línea 110 kV El Edén - Alto del Carmen, por operación de la zona 2 de su protección de distancia residual y su protección de sobrecorriente de fase, ante una falla en la mencionada línea.

La empresa CGE Transmision S.A. indica que la causa de la falla corresponde a la caída de un conductor del segmento distribución, de propiedad de CGE S.A., sobre la línea de transmisión, específicamente en el vano comprendido entre las estructuras N°161 y N°162.

### d.2 Fenómeno Físico:

OPE6: Falla en instalaciones de terceros u en otro segmento.

La empresa CGE Transmisión S.A. entrega los antecedentes para acreditar el fenómeno físico determinado por el Coordinador.

### d.3 Reiteración:

Reiteración Fenómeno Físico en la instalación afectada: Esta instalación no ha sido afectada por el mismo fenómeno físico, durante los últimos 24 meses móviles.

Reiteración Fenómeno Físico en instalaciones del mismo propietario: Sí se han producido fallas en instalaciones del mismo propietario con un fenómeno físico similar, durante los últimos 24 meses móviles, correspondientes a los siguientes Estudios para Análisis de Falla:

FALLA_ID	NOMBRE_FALLA	FECHA_FALLA	ACCIONES_CORRECTIVAS
EAF 154_2021	Desconexión forzada de barra 23 kV de S/E Marquesa	06-06-2021	La empresa CGE S.A. no propone acciones correctivas.
EAF 231_2021	Apertura del interruptor 52CT1 de S/E Chocalán	21-08-2021	No se indican.
EAF 254_2021	Desconexión de barra 23 kV N°1 de S/E La Portada	02-09-2021	La empresa CGE S.A. no propone acciones correctivas.
EAF 281_2021	Desconexión forzada de barra 13.2 kV de S/E Hualañé	18-09-2021	No se indican.
EAF 329_2021	Desconexión forzada de línea 66 kV Loncoche - Temuco N°1	31-10-2021	No se indican.
EAF 342_2021	Apertura de interruptores 52CT2 y 52BR de S/E Cachapoal	14-11-2021	La empresa CGE Transmisión S.A. indica que se normaliza la conexión del cable de control entre el reconector y unidad de control en alimentador 52C4 circuito Lo Conti, al igual para el 52C5 circuito El Olivar de S/E Cachapoal.
EAF 002_2022	Apertura del interruptor 52ET3 de S/E Constitución	02-01-2022	La empresa CGE Transmisión S.A. señala que tomó contacto con la empresa Quanta Services para que, a su vez, diera a conocer el problema a la fábrica Schneider Electric (Proveedores del esquema SCADA y relés de protecciones) para que así se entregue un informe técnico a CGE Transmisión S.A. que clarifique y resuelva esta anomalía. Dicho nuevo esquema de control formó parte del proyecto NUP 900 Ampliación en S/E Constitución, que fue puesto en servicio en octubre de 2021.
EAF 056_2022	Falla en línea 66 kV Tap Rengo - Rengo	16-02-2022	La empresa CGE S.A. señala que no aplica acciones correctivas.
EAF 099_2022	Desconexión forzada de barra 23 kV de S/E La Portada	18-03-2022	La empresa CGE Transmisión S.A. indica que, a pesar de que actualmente existe correcta coordinación, se desarrollará un Estudio de Ajustes y Coordinación de Protecciones para verificar la correcta coordinación, y estudiar si es posible solucionar la operación del ET1, ante falla evolutiva en dos alimentadores.
EAF 115_2022	Desconexión forzada de la barra 23 kV N°3 de S/E La Portada	04-04-2022	La empresa CGE Transmisión S.A. señala: <ul style="list-style-type: none"> <li>• "Inmediatamente se realiza revisión de las instalaciones, para energizar a la brevedad atendida la causa de la operación en primera instancia".</li> <li>• "Se paraliza faena de mantenimiento preventivo inmediatamente y se solicita a la empresa proveedora ejecutante de lavado aislación, el desarrollar un reciclaje de la técnica correcta de lavado indicada en instructivo".</li> <li>• "Estudio y evaluación remplazo de cable de control, con señal de apertura y cierre remoto hacia control por cable apantallado".</li> </ul>
EAF 214_2022	Falla en la línea 66 kV Monterrico - Cocharcas	05-06-2022	La empresa CGE Transmisión S.A. indica lo siguiente: "Se realizará la instalación de disuasivos de ave en la estructura N°19 LT 66 kV Monterrico-Cocharcas el 29/06/2022, según SD 2022053277".
EAF 215_2022	Apertura automática del interruptor 52CT1 de S/E Chocalán	05-06-2022	La empresa CGE Transmisión S.A. indica las siguientes acciones correctivas de corto plazo: "Con fecha 22 de mayo de 2022 se ha iniciado en la PGP del Coordinador Eléctrico Nacional la solicitud de proyecto de modificación no

FALLA_ID	NOMBRE_FALLA	FECHA_FALLA	ACCIONES_CORRECTIVAS
			<i>relevante, NUP 3468, mediante el cual se propone el reemplazo de los interruptores 52CT1 y 52C2 de S/E Chocalán, lo cual incluye los controles de ambos equipos. La solicitud MNR se ha iniciado recientemente y propone un plazo de 4 meses para completar el reemplazo que se propone, es decir, debe ser finalizado antes del 31 de octubre de 2022".</i>
EAF 234_2022	Desconexión forzada de barra 13.2 kV de S/E Licantén	23-06-2022	La empresa CGE Transmisión S.A. no indica acciones correctivas a corto ni largo plazo.
EAF 330_2022	Apertura intempestiva del interruptor 52ET2 de S/E Quirihue	15-08-2022	Las empresas CGE S.A. y CGE Transmisión S.A. no indican acciones correctivas a corto ni largo plazo.
EAF 331_2022	Apertura intempestiva del interruptor 52ET2 de S/E Quirihue	15-08-2022	La empresa CGE Transmisión S.A. indica que <i>"Se realiza el reemplazo equipo reconector de Paño ET2 debido a falla"</i> .
EAF 388_2022	Pérdida de suministro en la barra 23 kV de S/E Quirihue	20-10-2022	La empresa CGE Transmisión S.A. que <i>"no aplica"</i> .
EAF 422_2022	Desconexión forzada de la barra 23 kV de S/E La Vega	15-11-2022	No se señalan.
EAF 450_2022	Apertura intempestiva del interruptor 52E9 de S/E Constitución	09-12-2022	La empresa CGE Transmisión S.A. que <i>"no aplica"</i> .
EAF 472_2022	Pérdida de suministro en S/E Copiapó	16-12-2022	La empresa CGE S.A. no indica acciones correctivas.
EAF 054_2023	Desconexión de transformadores 66/13.2 kV de S/E Curicó	06-02-2023	La empresa CGE Transmisión S.A. indica que la primera acción ya fue realizada y correspondió a una inspección de diagnóstico al interruptor 52CT1, efectuada el domingo 12/02/2023 en horas de madrugada (SD N°2023011474). En esta inspección se pudo determinar el daño en las bobinas de apertura del interruptor 52CT1.
EAF 078_2023	Falla en línea 66 kV Loma Colorada - Escuadrón	17-02-2023	La empresa CGE Transmisión S.A. señala: <ul style="list-style-type: none"> <li>• <i>"En el paño B1 de SE Loma Colorada, se estudiará la habilitación de elementos de cierre contra falla para mejorar el tiempo de operación durante la reconexión"</i>.</li> <li>• <i>"En paño B9 SE Coronel se estudiarán medidas que eviten que los elementos de sincronismo sobrescriban a los registros secuenciales"</i>.</li> </ul>
EAF 140_2023	Falla en línea 66 kV Rancagua - San Francisco de Mostazal	27-03-2023	La empresa CGE Transmisión S.A. señala que no aplica realizar acciones correctivas.
EAF 170_2023	Falla en 52C3 de S/E San Francisco de Mostazal	15-04-2023	La empresa CGE Transmisión S.A. señala lo siguiente: <i>"No se consideran acciones correctivas."</i>
EAF 190_2023	Pérdida de suministro en S/E Mahns	28-04-2023	La empresa CGE Transmisión S.A. señala lo siguiente: <i>"No se consideran acciones correctivas."</i>
EAF 217_2023	Falla en interruptor 52C24 de S/E Marga Marga	20-05-2023	La empresa CGE Transmisión S.A. indica: <i>"No se consideran acciones correctivas, falla de naturaleza transitoria, intermitencias en la comunicación."</i>
EAF 220_2023	Desconexión forzada de barra N°2 13.8 kV de S/E Molina	23-05-2023	La empresa CGE Transmisión S.A. señala que: <i>"Se realizará la corrección de los ajustes horarios en las unidades de control de los paños C2 y C11"</i> .
EAF 225_2023	Desconexión forzada de barra N°1 23 kV de S/E Padre Hurtado	24-05-2023	La empresa CGE Transmisión S.A. indica lo siguiente: <i>"No Aplica, consideramos que la operación del interruptor general de MT se produce correctamente ante la condición expuesta. Si bien el despeje de la falla simultánea no es lo que se espera, la operación evita daño mayor en las instalaciones."</i>
EAF 320_2023	Desconexión forzada de barra 13.8 kV de S/E Pacífico	30-07-2023	La empresa CGE Transmisión S.A. que <i>"no aplica"</i> .

Cantidad de fallas (sin importar Fenómeno Físico) en la misma instalación: Sí se ha producido fallas en la misma instalación afectada, durante los últimos 24 meses móviles. (EAF 301\_2023 y EAF 311\_2023)

#### d.4 Fenómeno eléctrico

DI21N: Distancia residual.

#### e. Detalles de la instalación, equipo o elemento donde se produjo la falla

El elemento donde se originó la falla corresponde a la línea 110 kV El Edén - Alto del Carmen, la cual posee dos tramos, de 21 km y 19.5 km de largo respectivamente y con una capacidad nominal de 61.9 [MVA] (permanente a 25°C con sol y a tensión nominal), según lo informado por su propietario en la plataforma Infotécnica del Coordinador.

Al respecto, la empresa CGE Transmisión S.A. envía información de los mantenimientos realizados a línea 110 kV El Edén - Alto del Carmen durante los últimos 24 meses.

**f. Ubicación urbana o rural según DS 327/1997**

La empresa CGE S.A. indica:

Sub-Estación	Alimentador / Paño	Ubicación
S/E Alto del Carmen	San Félix / C1	Rural
S/E Alto del Carmen	El Terrón / C2	Rural
S/E Alto del Carmen	El Tránsito / C3	Rural

**g. Proposición del propietario respecto del origen de la falla**

La empresa CGE Transmisión S.A. indica: "Fuerza Mayor o Caso Fortuito".

**h. Comuna donde se presenta la falla**

03304: Alto del Carmen.

**i. Fecha de entrega de la información al Coordinador**

Coordinado	Informe de 48 horas (07-08-2023)	Informe de 5 días (11-08-2023)
CGE Transmisión S.A.	05-08-2023	23-08-2023
Compañía General de Electricidad S.A. (CGE S.A.)	06-08-2023	16-08-2023
Hidroeléctrica Río Huasco S.A.	05-08-2023	09-08-2023

**2. Descripción del equipamiento afectado**

**a. Sistema de Generación**

Central	Unidad	Pérdida de Generación (MW)	Hora Desc.	Hora Norm.
HP Río Huasco	-	0.65	14:14	17:52

**Total: 0.65 MW**

- Los montos y horarios señalados corresponden a lo informado por la empresa Hidroeléctrica Río Huasco S.A.

**b. Sistema de Transmisión**

Elemento Afectado	Segmento	Tramo	Hora Desc.	Hora Norm.
LT 110 kV El Edén - Alto del Carmen	ST Zonal	El Edén - Tap Río Huasco 110 kV	14:14	16:42
LT 110 kV El Edén - Alto del Carmen	ST Zonal	Tap Río Huasco - Alto del Carmen 110 kV	14:14	16:42
S/E Central Río Huasco	ST Dedicado	Transformador 110/6.6 kV	14:14	17:52

- Los horarios señalados corresponden a lo informado por las empresas CGE Transmisión S.A. e Hidroeléctrica Río Huasco S.A.



### c. Consumos

Sub-Estación	Alimentador / Paño	Comuna	Pérdida de Consumo (MW)	% consumo pre-falla	Clientes Afectados	H. Desc.	H. Dispon.	H. Norm.
S/E Alto del Carmen	El Terrón / C2	Alto del Carmen	0.03	0.000	83	14:14	16:42	16:42
S/E Alto del Carmen	El Tránsito / C3	Alto del Carmen	0.40	0.004	1513	14:14	16:42	16:42
S/E Alto del Carmen	San Félix / C1	Alto del Carmen	0.24	0.003	1052	14:14	16:42	16:59
S/E Alto del Carmen	San Félix / C1	Alto del Carmen	0.03	0.000	44	14:14	16:42	16:59
<b>Total:</b>			<b>0.70 MW</b>	<b>0.007 %</b>	<b>2692</b>			

- Los montos y horarios señalados corresponden a lo informado por las empresas CGE S.A. y CGE Transmisión S.A.

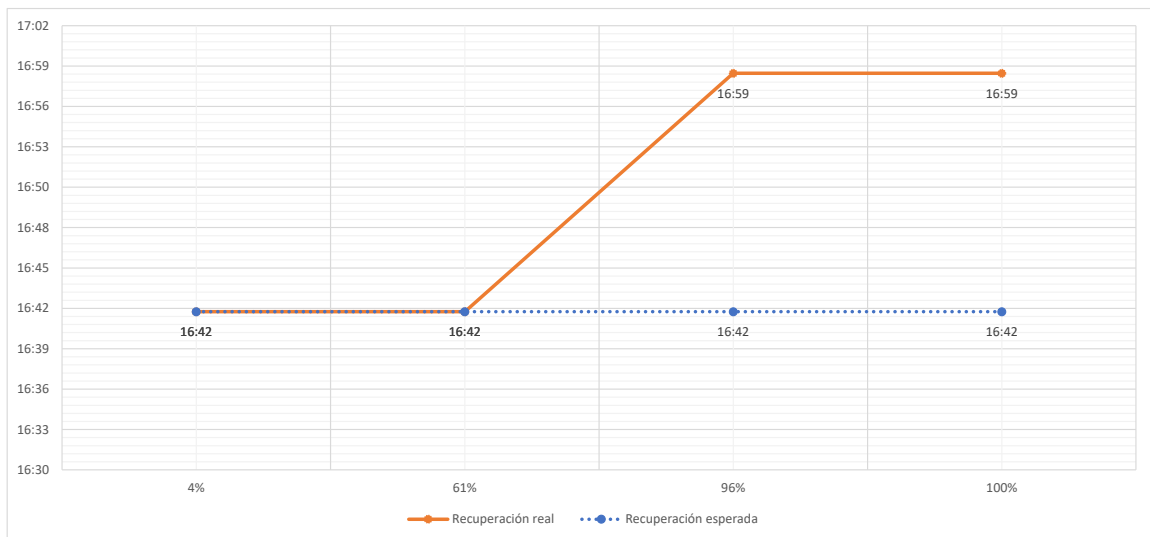
### 3. Estimación de la energía no suministrada

Sub-Estación	Alimentador / Paño	Empresa	Tipo de Cliente	Pérdida de Consumo (MW)	Tiempo Indispon. (h)	Tiempo Desc. (h)	ENS (MWh)
S/E Alto del Carmen	El Terrón / C2	CGE	Regulado	0.03	2.47	2.47	0.1
S/E Alto del Carmen	El Tránsito / C3	CGE	Regulado	0.40	2.47	2.47	1.0
S/E Alto del Carmen	San Félix / C1	CGE	Regulado	0.24	2.47	2.75	0.7
S/E Alto del Carmen	San Félix / C1	CGE	Regulado	0.03	2.47	2.75	0.1

**Clientes Regulados : 1.9 MWh**  
**Clientes Libres : MWh**  
**Total : 1.9 MWh**

- Los montos señalados corresponden a lo informado por las empresas CGE S.A. y CGE Transmisión S.A.

- Curva de recuperación esperada v/s recuperación real.



Se aprecian leves diferencias entre los horarios de recuperación real respecto de los horarios de disponibilidad de las barras primarias respectivas para recuperar consumos.

- Velocidad promedio de recuperación.

Rango	Potencia (MW)	Tiempo recuperación (h)	Velocidad de recuperación (MW/h)
Primer 80 %	0.56	2.75	0.20
Último 20 %	0.14	2.75	0.05
100 % Total	0.70	2.75	0.25

#### 4. Descripción de las configuraciones en los momentos previo y posterior a la falla

**Demanda del sistema previo a la falla:** 10362.0 MW

##### Regulación de Frecuencia

Control distribuido de frecuencia en el Sistema Eléctrico Nacional, previo a la falla, mediante las centrales Angostura (U2), Canutillar (U2), Colbún (U1), El Toro (U1, U2 y U4), Kelar (TG1), Nueva Renca (TG y TV) y Ralco (U1 y U2).

##### Estado y configuración previo a la falla

Las instalaciones de transmisión se encontraban en servicio normal en los momentos previos a la desconexión forzada.

##### Otros antecedentes relevantes

Según lo informado por la empresa CGE Trasmisión:

*"A las 14:14hrs. del día 05-08-2023 se produce la desconexión de la línea de transmisión 110kV El Edén – Alto del Carmen por la caída de conductor de MT del alimentador San Felix propiedad de CGE distribución sobre el vano entre las estructuras N°161 y N°162 de la línea de transmisión antes mencionada, provocando el desprendimiento de 0,70MW, afectando los consumos de la subestación Alto del Carmen. Recuperándose la totalidad de los consumos afectados a las 16:43hrs."*

Según lo informado por la empresa Hidroeléctrica Río Huasco:

*"Despacho CEN informa falla en línea 110 kV Tap El Eden – Alto del Carmen, por corte de conductor en línea MT. Operan los Relés de protección T60 y D60 de la SSEE Rio Huasco, produciendo la apertura del Interruptor 52HT."*

De forma complementaria, se adjuntan los informes de falla de instalaciones ingresado en el sistema del Coordinador Eléctrico Nacional por Compañía General de Electricidad S.A., CGE Trasmisión S.A. e Hidroeléctrica Río Huasco S.A. (Anexo N°1) y otros antecedentes aportados las mismas empresas (Anexo N°2).

##### Acciones preventivas y/o correctivas

a) La instalación afectada no cuenta con una auditoría, plan de acción u otro tipo de mantenimiento en curso.

b) Acciones correctivas a corto plazo:

La empresa CGE Trasmisión S.A. señala: *"Se realizó revisión e inspección del vano AT comprendido entre las E161 y E162, lugar donde se produjo la caída del conductor de MT de distribución sobre línea de Transmisión, encontrando todo en condiciones normales, descartando así alguna situación que pudiese presentar complicaciones a futuro."*

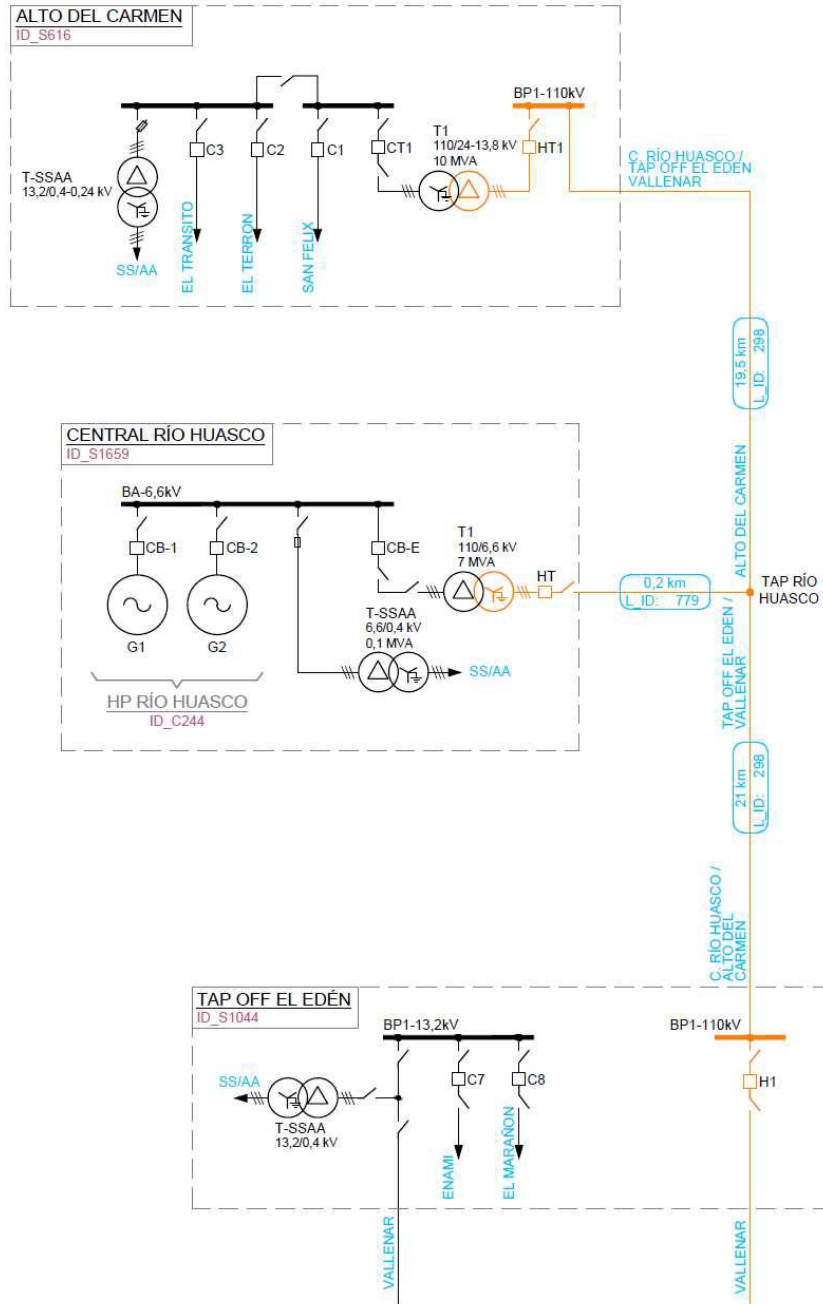
La empresa CGE S.A. no indica acciones correctivas de corto plazo.

c) Acciones correctivas a largo plazo:

La empresa CGE Transmisión S.A. señala: "No se requieren acciones correctivas de Largo Plazo."

La empresa CGE S.A. no indica acciones correctivas de largo plazo.

### Diagrama simplificado de las instalaciones previo a la falla



## 5. Cronología de eventos y la descripción de las causas de los eventos

Hora	Involucrado	Evento
14:14	CGE Transmisión	Apertura automática del interruptor 52H1 de S/E El Edén, asociado a la línea 110 kV El Edén - Alto del Carmen, por operación de la zona 2 de su protección de distancia residual y su protección de sobrecorriente de fase, ante una falla en la fase C con contacto a tierra.
14:14+	Hidroeléctrica Río Huasco	Apertura automática del interruptor 52HT de S/E Central Río Huasco, asociado al transformador 110/6.6 kV de dicha subestación, por operación de su protección de sobrecorriente de fase.

- Las horas señaladas corresponde a lo informado por las empresas CGE Transmisión S.A. e Hidroeléctrica Río Huasco S.A.

## 6. Normalización del servicio

Fecha	Involucrado	Hora	Acción
05-08-2023	CGE Transmisión	16:00	Apertura manual del interruptor 52C1 de S/E Alto del Carmen.
05-08-2023	CGE Transmisión	16:23	Apertura manual del interruptor 52HT1 de S/E Alto del Carmen.
05-08-2023	CGE Transmisión	16:23	Apertura manual del desconectador 89HT1 de S/E Alto del Carmen.
05-08-2023	CGE Transmisión	16:41	Cierre del interruptor 52H1 de S/E El Edén, energizando en vacío la línea 110 kV El Edén - Alto del Carmen.
05-08-2023	CGE Transmisión	16:42	Cierre del desconectador 89HT1 de S/E Alto del Carmen.
05-08-2023	CGE Transmisión	16:42	Cierre del interruptor 52HT1 de S/E Alto del Carmen, normalizado la totalidad de los consumos afectados en los alimentadores El Terrón y El Tránsito.
05-08-2023	CGE Transmisión	16:43	Cierre del interruptor 52C1 de S/E Alto del Carmen.
05-08-2023	CGE	16:59	Recuperados la totalidad de los consumos afectados en el alimentador San Félix.
05-08-2023	Hidroeléctrica Río Huasco	17:52	Cierre del interruptor 52HT de S/E Central Río Huasco, normalizando la conexión de la central HP Río Huasco.

- Las horas y fechas señaladas corresponden a lo informado por las empresas CGE S.A., CGE Transmisión S.A. e Hidroeléctrica Río Huasco S.A.

## ANEXO N°1

Informes de trabajos y fallas de instalaciones ingresados en el Sistema del Coordinador Eléctrico Nacional por Compañía General de Electricidad S.A., CGE Transmisión S.A. e Hidroeléctrica Río Huasco S.A.

## Resumen

Fecha de envío al Coordinador Eléctrico : 06-08-2023 21:41

Finalizado

### Número:

2023003238

### Solicitante:

ELIAS FRANCISCO FRITIS BORQUEZ

### Empresa:

COMPAÑÍA GENERAL DE ELECTRICIDAD S.A.

### Tipo de Origen:

Externo

### SubEstación:

S/E ALTO DEL CARMEN

### Falla Sobre:

otro

### Elementos

Tipo: otros - tendido cable

Nombre :

Fecha Perturbacion : 05-08-2023 14:14

Fecha Normaliza : 05-08-2023 16:43

Protección : .

Interruptor : .

Consumo : 0.7

Comentario : .

### ¿Produce otra indisponibilidad?

No

### Zona Afectada

Atacama

### Comuna

Alto del Carmen

### Tipo Causa

Causa Definitiva

Causa Principal

Se investiga

### Comentarios Tipo Causa:

Falla Aguas arriba del sistema de distribución CGE, Afecta los consumos de S/E Alto del Carmen

### Causas

**-Fenómeno Físico:** Fallas en instalaciones de terceros u en otro segmento.

**-Elemento:** Conductores

**-Fenómeno Eléctrico:** Sobrecorriente instantánea de fase  
**-Operación de los interruptores:** Opera según lo esperado

**Comentarios Causas:**

**-Fenómeno Físico:** .  
**-Elemento:** .  
**-Fenómeno Eléctrico:** .  
**-Operación de los interruptores:** .

**Observaciones:**

**-Observaciones:** CGE Dx. no se pronuncia por fallas Externas  
**-Acciones Inmediatas:** .  
**-Hechos Sucuidos:** .  
**-Acciones Correctivas a Corto Plazo:** .  
**-Acciones Correctivas a Largo Plazo:** .

**Afecta SSCC:**

**Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

Consumo Regulado

**Distribuidoras Afectadas**

CGE DISTRIBUCIÓN S.A. / Perd. Estm. de Potencia: 0.7 / Región : Atacama / Clientes Afectados: 2693

**Retorno Automatico:**

No Tiene Retorno Automático

**Fecha / Hora Perturbación de la Solicitud:**

05-08-2023 14:14

**Fecha / Hora Estimada Retorno:**

05-08-2023 16:43

**Fecha / Hora Efectiva Retorno:**

05-08-2023 16:41



**Comentarios Fecha Retorno:**

ínea de 110 kV Tap El Edén - Alto del Carmen cerrada, cancelado IF 2023003231.

 Archivos Subidos

**Archivo**

**Fecha Subida**

Archivo	Fecha Subida
 Anexo 1_IF 2023003238_SE A. DEL CARMEN_05-08-2023.rar (/informe_fallas/download_file/64d04854ad651f26a63b4d27/Anexo 1_IF 2023003238_SE A. DEL CARMEN_05-08-2023.rar)	16/08/2023 18:56:44
 IF5D_2023003238_TAP OFF EL EDEN 05-08-2023.pdf (/informe_fallas/download_file/64d04854ad651f26a63b4d27/IF5D_2023003238_TAP OFF EL EDEN 05-08-2023.pdf)	16/08/2023 18:57:11



## Resumen

Fecha de envío al Coordinador Eléctrico : 05-08-2023 15:24

Finalizado

### Número:

2023003231

### Solicitante:

Víctor Villalobos P.

### Empresa:

CGE TRANSMISIÓN S.A.

### Tipo de Origen:

Externo

### Línea:

EL EDEN - ALTO DEL CARMEN 110KV

### Tramo:

Tipo: secciones\_tramos - EL EDEN - TAP RIO HUASCO 110KV C1

Nombre : EL EDEN - TAP RIO HUASCO 110KV C1

Fecha Perturbacion : 05-08-2023 14:14

Fecha Normaliza : 05-08-2023 21:00

Protección : Paño H1 de S/E El Edén: Fases A a tierra a 42.8 km.

Interruptor : 52H1 de S/E El Edén

Consumo : 0.7 MW

Comentario : .

Tipo: secciones\_tramos - TAP RIO HUASCO - ALTO DEL CARMEN 110KV C1

Nombre : TAP RIO HUASCO - ALTO DEL CARMEN 110KV C1

Fecha Perturbacion : 05-08-2023 14:14

Fecha Normaliza : 05-08-2023 21:00

Protección : Paño H1 de S/E El Edén: Fases A a tierra a 42.8 km.

Interruptor : 52H1 de S/E El Edén

Consumo : 0.7 MW

Comentario : .

### Zona Afectada

Atacama

### Comuna

Alto del Carmen

### Tipo Causa

Causa Presunta

Causa Principal

### Comentarios Tipo Causa:

Se investiga.

**Causas**

- Fenómeno Físico:** Origen no determinado.
- Elemento:** Conductores
- Fenómeno Eléctrico:** Distancia (admitancia, impedancia o reactancia)
- Operación de los interruptores:** Opera según lo esperado

**Comentarios Causas:**

- Fenómeno Físico:** .
- Elemento:** .
- Fenómeno Eléctrico:** .
- Operación de los interruptores:** .

**Observaciones:**

- Observaciones:** Desconexión forzada del interruptor 52H1 de S/E El Edén, asociado a la LT 110 kV El Edén-Alto del Carmen, afectó a los consumos de la S/E Alto del Carmen con una potencia interrumpida de 0,7 MW y 2693 clientes afectados de CGE.
- Acciones Inmediatas:** Interrogación de protecciones y recorrido de LAT.
- Hechos Sucidos:** .
- Acciones Correctivas a Corto Plazo:** .
- Acciones Correctivas a Largo Plazo:** .

**Afecta SSCC:****Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

Consumo Regulado

**Distribuidoras Afectadas**

CGE DISTRIBUCIÓN S.A. / Perd. Estm. de Potencia: 0.7 / Región : Atacama / Clientes Afectados: 2693  
CGE DISTRIBUCIÓN S.A. / Perd. Estm. de Potencia: 0.7 / Región : Atacama / Clientes Afectados: 2693

**Retorno Automatico:**

No Tiene Retorno Automático

**Fecha / Hora Perturbación de la Solicitud:**

05-08-2023 14:14












**Fecha / Hora Estimada Retorno:**

05-08-2023 21:00

**Fecha / Hora Efectiva Retorno:**

05-08-2023 16:41

 Archivos Subidos

Archivo	Fecha Subida
 IF N°2023003231 DF 52H1 SE El Edén 05-08-2023 - VF.pdf (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/IF N°2023003231 DF 52H1 SE El Edén 05-08-2023 - VF.pdf)	23/08/2023 11:19:53
 ANEXO I - Ajustes Protecciones (Print Out).zip (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/ANEXO I - Ajustes Protecciones (Print Out).zip)	23/08/2023 11:20:55
 Eventos y Oscilografias.zip (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/Eventos y Oscilografias.zip)	23/08/2023 11:20:55
 Fotografías Falla.zip (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/Fotografías Falla.zip)	23/08/2023 11:21:50
 IF N20230003231 ANEXO II - INFORME DE INTERRUPCIÓN DE SUMINISTRO.pdf (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/IF N20230003231 ANEXO II - INFORME DE INTERRUPCIÓN DE SUMINISTRO.pdf)	23/08/2023 11:22:06
 IF N°2023003231 ANEXO III - PROBATORIOS.pdf (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/IF N°2023003231 ANEXO III - PROBATORIOS.pdf)	23/08/2023 11:22:13
 IF N2023003231 ANEXO IV - DECLARACIÓN JURADA.pdf (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/IF N2023003231 ANEXO IV - DECLARACIÓN JURADA.pdf)	23/08/2023 11:22:20
 ANEXO V - Estampa de Tiempo.zip (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/ANEXO V - Estampa de Tiempo.zip)	23/08/2023 11:22:49
 Mante 2022.zip (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/Mante 2022.zip)	23/08/2023 11:27:40
 Mante 2023 1 de 2.zip (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/Mante 2023 1 de 2.zip)	23/08/2023 11:28:14
 Mantte 2023 2 de 2.zip (/informe_fallas/download_file/64ce9f72ad651f2b89277df5/Mantte 2023 2 de 2.zip)	23/08/2023 11:28:41

## Resumen

Fecha de envío al Coordinador Eléctrico : 05-08-2023 19:02

Finalizado

### Número:

2023003232

### Solicitante:

Jose Luis Rivera

### Empresa:

HIDROELÉCTRICA RÍO HUASCO S.A.

### Tipo de Origen:

Externo

### Central:

HP RIO HUASCO

**Afecta a todas las unidades**

### Potencia:

Desconexión de la unidad(es)

### Unidades:

### Zona Afectada

Atacama

### Comuna

Vallenar

### Tipo Causa

Causa Presunta

Causa Principal

Desconexión debido a falla en instalaciones de terceros.

### Comentarios Tipo Causa:

CEN informa Falla en línea 110kV Alto del Carmen - Villa edén producto del corte de una línea de Media tensión.

### Causas

**-Fenómeno Físico:** Fallas en instalaciones de terceros u en otro segmento.

**-Elemento:** Conductores

**-Fenómeno Eléctrico:** Sobrecorriente instantánea de fase

**-Operación de los interruptores:** Opera según lo esperado

### Comentarios Causas:

**-Fenómeno Físico:** CEN informa Falla en línea 110kV Alto del Carmen - Villa edén producto del corte de una línea de Media tensión.

**-Elemento:** Cen informa de corte en Línea de media tensión que produce falla en línea 110kV Alto del Carmen-Villa Edén

**-Fenómeno Eléctrico:**

**-Operación de los interruptores:**

**Observaciones:**

**-Observaciones:** CEN informa Falla en línea 110kV Alto del Carmen - Villa edén producto del corte de una línea de Media tensión.

**-Acciones Inmediatas:** NA

**-Hechos Sucedidos:** NA

**-Acciones Correctivas a Corto Plazo:** NA

**-Acciones Correctivas a Largo Plazo:** NA

**Afecta SSCC:**

**Afecta Medidores:**

No

**Afecta Protecciones:**

No

**Consumo:**

No tiene consumo afectado

**Retorno Automatico:**

No Tiene Retorno Automático

**Estado Operativo:**

FE (Falla Externa)

**Estado Operativo Efectivo:**

FE (Falla Externa)

**Fecha / Hora Perturbación de la Solicitud:**

05-08-2023 14:13



**Fecha / Hora Estimada Retorno:**




05-08-2023 17:52

**Fecha / Hora Efectiva Retorno:**

05-08-2023 17:52

 Archivos Subidos

Archivo	Fecha Subida
 05_08_2023 PMG Rio Huasco Inf Completo IF0003232.pdf (/informe_fallas/download_file/64cec7cdad651f2b7007ea83/05_08_2023 PMG Rio Huasco Inf Completo IF0003232.pdf)	09/08/2023 13:25:19
 D60 05-08-2023 EVENTO.txt (/informe_fallas/download_file/64cec7cdad651f2b7007ea83/D60 05-08-2023 EVENTO.txt)	09/08/2023 13:26:06

Archivo	Fecha Subida
 Oscilografía T60 RELOJ 2.png (/informe_fallas/download_file/64cec7cdad651f2b7007ea83/Oscilografía T60 RELOJ 2.png)	09/08/2023 13:26:06
 Oscilografia T60 RELOJ 1.png (/informe_fallas/download_file/64cec7cdad651f2b7007ea83/Oscilografia T60 RELOJ 1.png)	09/08/2023 13:26:06
 T60 05-08-2023 EVENTO.txt (/informe_fallas/download_file/64cec7cdad651f2b7007ea83/T60 05-08-2023 EVENTO.txt)	09/08/2023 13:26:06

ANEXO N°2

Otros antecedentes aportados por Compañía General de Electricidad S.A., CGE  
Transmisión S.A. e Hidroeléctrica Río Huasco S.A.

INFORME (s) QUINTO DÍA N°: <b>IF 2023003238</b>	FECHA DE FALLA: 05 de agosto de 2023
INSTALACIÓN (ES) S/E ALTO DEL CARMEN	

## 1. CAUSA U ORIGEN DE LA FALLA:

### 1.1. Fecha y hora de la Falla:

Fecha	05 de agosto de 2023
Hora	14:14

### 1.2. Localización de la falla en Instalaciones de Transmisión.

#### 1.2.1. Nombre de subestación con pérdida de suministro. S/E Alto del Carmen

### 1.3. Datos de la Empresa.

**Nombre Empresa:** Compañía General de Electricidad S.A  
**RUT:** 76.411.321-7  
**Representante Legal:** Iván Quezada Escobar.  
**Dirección:** Av. Presidente Riesco N° 5561 P14, las Condes,  
Santiago, Chile.



**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2023003238</b>	FECHA DE FALLA: 05 de agosto de 2023
INSTALACIÓN (ES) S/E ALTO DEL CARMEN	

**2. POTENCIA INTERRUMPIDA DE CLIENTES FINALES.**

Subestación	Transformador	Alimentador		MW	Horario		Bloque	Clientes Afectados	kVa afectados	Distribuidora	Comunas	Urbano / Rural	Observación
	(Primario)	Nombre	Nema		Desconexión	Normalización			(potencia instalada Dx)				
Alto del Carmen	T1	San Félix	52C1	0,237	14:14	16:59	1	<b>1.052</b>	<b>2.413</b>	CGE	Alto del Carmen	R	Recuperados el 96% de los consumos.
				0,033	14:14	16:59	2	<b>44</b>	<b>190</b>	CGE	Alto del Carmen	R	Recuperados el 4% de los consumos.
		El Terrón	52C2	0,030	14:14	16:42	1	<b>83</b>	<b>1.890</b>	CGE	Alto del Carmen	R	Recuperados el 100% de los consumos.
		El Tránsito	52C3	0,400	14:14	16:42	1	<b>1.513</b>	<b>5.192</b>	CGE	Alto del Carmen	R	Recuperados el 100% de los consumos.
<b>Total</b>				<b>0,70</b>									

ENS: **1,806 MWh.**  
N° de clientes afectados CGE: **2.692**



**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: <b>IF 2023003238</b>	FECHA DE FALLA: 05 de agosto de 2023
INSTALACIÓN (ES) S/E ALTO DEL CARMEN	

Se adjunta tabla con Detalle de los PMGD conectados en redes de MT en los circuitos afectados.

PMGDs Conectados en redes de MT				
PMGD	Subestación	Alimentador		Potencia Desprendida (MW)
		Nombre	Nema	
No aplica				

ID Barra	Barra	ID Paño	Paño	Alimentador	Pérdida de cons	Hora de Desconexión	Tiempo de interrupci	Hora de Normalización equivalente[dd-mm	Comunas /	Sistema de	Enegia Inte	N° Clientes	Enegia Inte	N° Clientes	ID Coordin	Coordinad	Tipo de clii	ID Cliente	Cliente Lib	Cpph equiv
533	BA S/E ALTO DEL CARMEN 13.8KV	2806	S/E ALTO DEL	EL TERRON	0.030	05-08-2023 14:14	2.466	05-08-2023 16:42	to del Carm	B	0.24	83	0.00	0.00	247	CGE S.A.	RE	no aplica	no aplica	0.097
533	BA S/E ALTO DEL CARMEN 13.8KV	2805	S/E ALTO DEL	EL TRANSITO	0.400	05-08-2023 14:14	2.466	05-08-2023 16:42	to del Carm	B	1.02	1513	0.00	0.00	247	CGE S.A.	RE	no aplica	no aplica	0.413
533	BA S/E ALTO DEL CARMEN 13.8KV	2804	S/E ALTO DEL	SAN FELIX	0.237	05-08-2023 14:14	2.763	05-08-2023 16:59	to del Carm	B	0.70	1052	0.00	0.00	247	CGE S.A.	RE	no aplica	no aplica	0.254
533	BA S/E ALTO DEL CARMEN 13.8KV	2804	S/E ALTO DEL	SAN FELIX	0.033	05-08-2023 14:14	2.763	05-08-2023 16:59	to del Carm	B	0.10	44	0.00	0.00	247	CGE S.A.	RE	no aplica	no aplica	0.035



INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

**1. CAUSA U ORIGEN DE LA FALLA:**

**1.1. Fecha y hora de la Falla:**

Fecha	05 de agosto 2023
Hora	14:14

**1.2. Localización de la falla:**

**1.2.1. Nombre de la instalación donde se produjo de falla.**

- ID 298 EL EDEN - ALTO DEL CARMEN 110KV

**1.2.2. Segmento al cual pertenece el equipo o elemento fallado.**

- Tz (Transmisión Zonal)

**1.2.3. Elemento o equipo fallado.**

- ID 298 EL EDEN - ALTO DEL CARMEN 110KV

**1.3. Causa origen de la falla:**

Desconexión forzada del interruptor 52H1 de S/E Tap Off El Edén debido a la operación del relé de distancia D60 por falla fase C a tierra por caída de conductor de MT alimentador San Felix, de propiedad CGE SA, sobre línea 110kV El Edén - Alto del Carmen entre el vano E161-E162.

**1.4. Proposición de origen de la falla.**

- I. Fuerza Mayor o Caso Fortuito

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

**1.5. Código de falla.**

Causas de Falla	Código	Descripción
Fenómeno Físico	OPE6	Desconexión debido a falla en instalación de terceros u en otro segmento
Elemento del Sistema Eléctrico	TX2	Conductores
Fenómeno Eléctrico	DI21N	Distancia Residual
Modo	13	Opera según lo esperado

**1.6. Comuna donde se originó la falla.**

ALTO DEL CARMEN\_ID 3304

**1.7. Comunas afectadas por la falla.**

ALTO DEL CARMEN\_ID 3304

**1.8. Reiteración.**

**1.8.1. N° de Fallas en Instalación. (Últimos 24meses móviles).**

Se producen dos fallas en los últimos 24 meses

**1.8.2. N° de Fallas en Instalación con mismo Fenómeno Físico. (Últimos 24meses móviles).**

No hay fallas con el mismo fenómeno físico.

**1.8.3. Identificación de Evento de Falla que afecta a instalación en los últimos 24 meses móviles.**

IF 2023002957 DF 52H1 SE El Edén 15-07-2023

IF 2023003028 DF 52H1 SE El Edén 23-07-2023

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

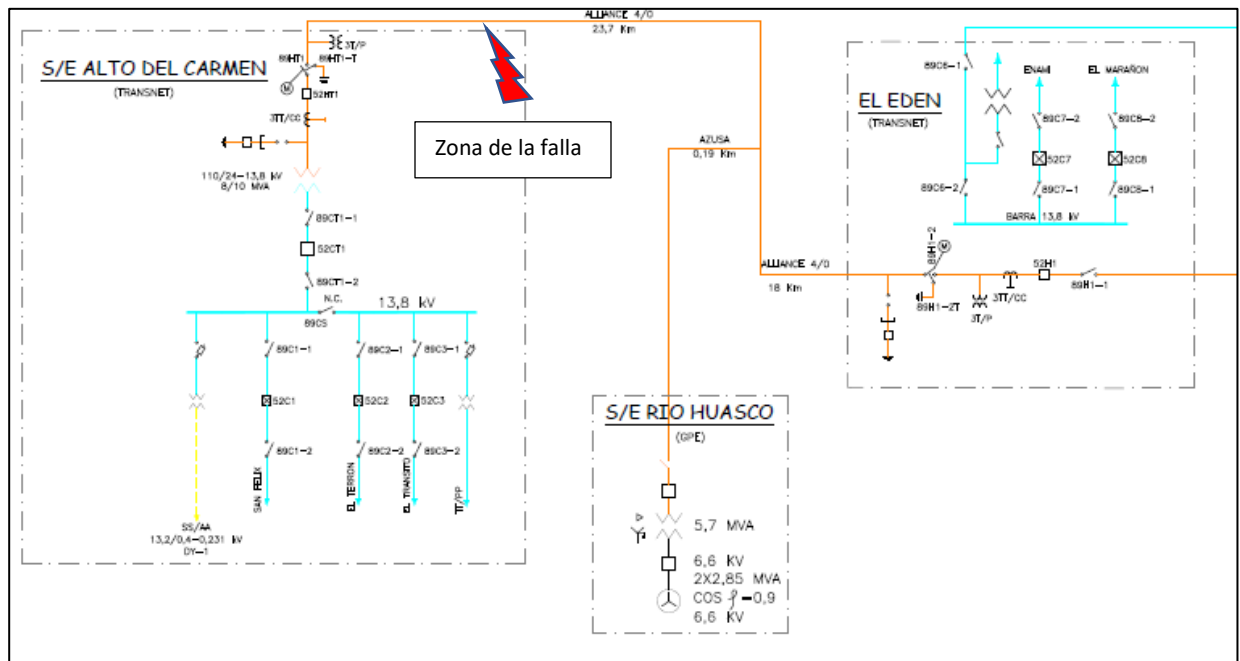
**1.9 Datos de la Empresa.**

**Nombre Empresa:** CGE Transmisión S.A  
**RUT:** 77.465.741-K  
**Representante Legal:** Iván Arístides Quezada Escobar.  
**Dirección:** Av. presidente Riesco N° 5561 P14, las Condes, Santiago, Chile.

**2. INSTALACIONES AFECTADAS.**

Instalación Primaria Afectada			Horarios	
Subestación	Transformador AT/MT	Barra MT	Hora Desconexión	Hora Normalización
Alto del Carmen	Transformador N°1	Barra 13,8 kV	14:13	16:40

**3. DIAGRAMAS SIMPLIFICADOS.**



**Figura N° 1:** Diagrama Unilínea Simplificado de Zona Afectada.

**INFORME DE FALLA**  
**REQUERIMIENTO NORMA TÉCNICA DE SyCS**

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

**4. PERDIDAS DE GENERACIÓN.**

No hay generación de propiedad de CGE Transmisión S.A., involucrada en la falla.

**5. POTENCIA INTERRUMPIDA DE CLIENTES FINALES.**

Subestación	Transformador	Alimentador		MW	Horario		Observación
	(Primario)	Nombre	Nema		Desconexión	Normalización	
Alto del Carmen	T1	Cto. San Felix	C1	0,27	14:14	16:43	Se realiza recuperación total de clientes CGE
		Cto. El Terrón	C2	0,03	14:14	16:42	Se realiza recuperación total de clientes CGE SA
		Cto. El Tránsito	C3	0,40	14:14	16:42	Se realiza recuperación total de clientes CGE SA
<b>Total</b>				<b>0,70</b>			

**ENS: 1,731 MWH.**

Nota: Las pérdidas de consumos informadas corresponden a magnitudes de potencia medidas en sistema CGE S.A (Cabecera de alimentador), en consecuencia, estos valores consideran el aporte de los PMGD conectados en red de MT y no representan los consumos efectivamente desprendidos.



**INFORME DE FALLA**  
**REQUERIMIENTO NORMA TÉCNICA DE SyCS**

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

**6. CRONOLOGÍA DE EVENTOS Y DESCRIPCIÓN DE CAUSAS.**

SUBESTACIÓN	EVENTO 05-08-2023	HORARIO
El Edén	DF del interruptor 52H1, asociado a la LT 110 kV El Edén-Alto del Carmen.	14:14
<b>Maniobras de recuperación</b>		
Alto del Carmen	Abierto manual interruptor 52C1 Cto. San Félix	16:00
Alto del Carmen	Abierto manual interruptor 52HT1, Gral 110 KV T1	16:23
Alto del Carmen	Abierto manual DDCC 89HT1, DDCC hacia S/E EL Edén	16:23
El Edén	Cerrado interruptor 52H1, asociado a la LT 110 kV El Edén-Alto del Carmen.	16:41
Alto del Carmen	Cerrado DDCC 89HT1, DDCC hacia S/E EL Edén	16:42
Alto del Carmen	Cerrado interruptor 52HT1, Gral 110 KV T1 (se recupera Ctos. El Terrón y El Tránsito)	16:42
Alto del Carmen	Cerrado interruptor 52C1 Cto. San Félix (recuperado 100% de los consumos)	16:43

**7. ESQUEMAS DE PROTECCIÓN Y CONTROL INVOLUCRADOS EN LA FALLA.**

A continuación, se presenta el análisis de esquemas de protección involucrados en despeje de falla.

**7.1. Resumen de Operación de esquema de protección:**

Relé	Hora Relé	S/E	Instalación (Paño)	Función de protección Operada	Tiempo [s].	Observaciones
GE-F60	18:13:48.000285	El Edén	H1	50	0.0498	LAT 110 KV El Edén – Alto del Carmen
GE-D60	18:13:35.231916	El Edén	H1	21N	0.0399	LAT 110 KV El Edén – Alto del Carmen

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

**7.2.1 SE Alto del Carmen – Paño H1.**

**7.2.1.1 Sistema 1 (único)**

**Relé GE F60.**

**Elemento protegido (A direccional): 110kV LT El Edén – Alto del Carmen**

- **Reporte de Eventos.**

PARAMETER	TIMESTAMP	DETAILS
Fault Report 7	08/05/23 18:13:47	<a href="#">View</a>
Fault Report 6	07/23/23 14:19:30	<a href="#">View</a>
Fault Report 5	11/06/71 09:39:17	<a href="#">View</a>
Fault Report 4	07/31/72 13:47:02	<a href="#">View</a>
Fault Report 3	03/04/71 06:54:21	<a href="#">View</a>
Fault Report 2	03/24/15 19:59:57	<a href="#">View</a>
Fault Report 1	06/07/11 03:39:35	<a href="#">View</a>
Fault Report n/a	n/a	<a href="#">View</a>
Fault Report n/a	n/a	<a href="#">View</a>
Fault Report n/a	n/a	<a href="#">View</a>

Save
Restore
Default
Reset
VIEW ALL mode

**Fault Report Data:**

Fault Number	7	ActiveSettingGroup	1
Relay Name	Relay-1	EventNumberAtTrigger	24256999
FirmwareRevision		FaultType	CG
DateAndTime	2023/08/05 18:13:47.145	Location	42.8
TriggerOperand	TRIP 52H1 On	LocationUnits	km
LineID		ShotCount	0

**Operated Elements:**

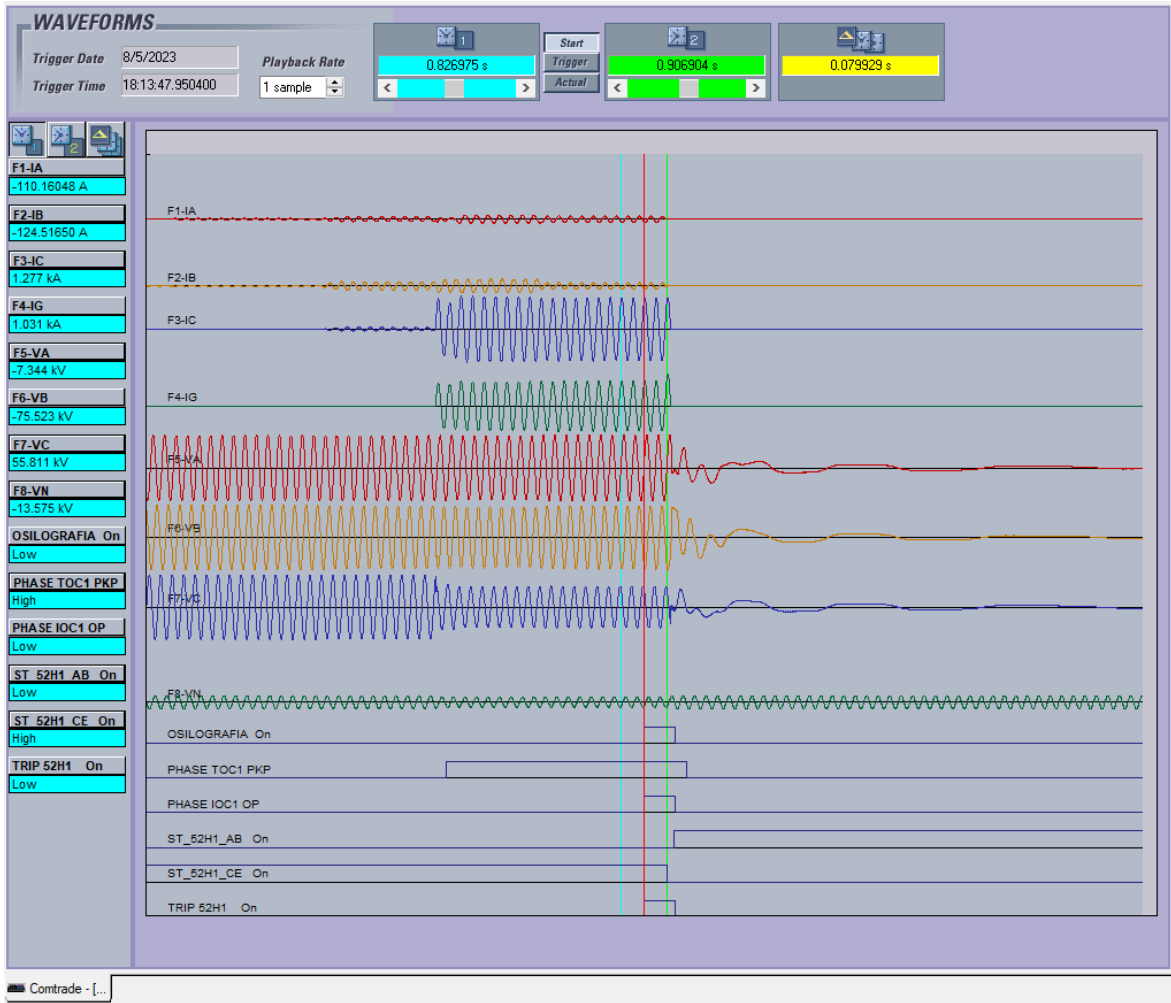
Element 1	PHASE IOC1	Element 4	NTRL DIR OC1
Element 2	PHASE TOC2	Element 5	AUX UV1
Element 3	PH DIR2	Element 6	SRC1 50DD

**Prefault and Fault Phasors:**

Signal	Prefault Magnitude	Prefault Angle	Fault Magnitude	Fault Angle
I0	0.000 A	0.0 deg	289.555 A	62.5 deg
I1	8.548 A	88.6 deg	400.471 A	300.0 deg
I2	0.000 A	0.0 deg	404.170 A	179.6 deg
Ia	7.555 A	88.9 deg	111.813 A	231.1 deg
Ib	8.956 A	335.0 deg	116.180 A	234.6 deg
Ic	9.246 A	202.2 deg	1093.941 A	60.5 deg
Va	66742.954 V	0.0 deg	67091.390 V	360.0 deg
Vb	66722.113 V	239.7 deg	65132.808 V	239.5 deg
Vc	66415.799 V	120.0 deg	42077.516 V	116.8 deg

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

- Registro oscilográfico de evento.



- Registro Secuencial de eventos Relé GE F60 Paño H1 SE El Edén.

Event Number	Date	Time	Cause	Comentario
24257055	Aug 06 2023	13:57:59.954110	AL_27/59P Off	
24257054	Aug 06 2023	13:57:59.954110	AUX UV1 DPO	
24257053	Aug 06 2023	13:57:59.248163	AL_27/59P On	
24257052	Aug 06 2023	13:57:59.248163	AUX UV1 OP	
24257051	Aug 06 2023	13:57:59.248163	AUX UV1 PKP	
24257050	Aug 05 2023	21:52:16.259390	PH DIR2 BLK A	
24257049	Aug 05 2023	21:52:15.704662	PH DIR2 BLK C	
24257048	Aug 05 2023	21:52:15.699642	PH DIR2 BLK B	
24257047	Aug 05 2023	21:52:15.699642	PH DIR2 BLK A	

**INFORME DE FALLA**  
**REQUERIMIENTO NORMA TÉCNICA DE SyCS**

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

24257046	Aug 05 2023	20:42:52.469836	PH DIR2 BLK B	
24257045	Aug 05 2023	20:42:52.467342	PH DIR2 BLK A	
24257044	Aug 05 2023	20:42:52.459860	PH DIR2 BLK C	
24257043	Aug 05 2023	20:42:25.806318	PH DIR2 BLK C	
24257042	Aug 05 2023	20:42:25.786331	PH DIR2 BLK C	
24257041	Aug 05 2023	20:42:25.766340	PH DIR2 BLK C	
24257040	Aug 05 2023	20:42:25.691372	PH DIR2 BLK C	
24257039	Aug 05 2023	20:42:25.686375	PH DIR2 BLK B	
24257038	Aug 05 2023	20:42:25.686375	PH DIR2 BLK A	
24257037	Aug 05 2023	20:41:04.416250	AL_RESDES_H1 Off	
24257036	Aug 05 2023	20:41:04.413538	AL_RESDES_H1 Off	
24257035	Aug 05 2023	20:41:00.671316	AL_RESDES_H1 On	
24257034	Aug 05 2023	20:41:00.666875	AL_RESDES_H1 On	
24257033	Aug 05 2023	20:41:00.665868	ST_52H1_CE On	Confirmación Cierre 52H1
24257032	Aug 05 2023	20:41:00.647863	ST_52H1_AB Off	
24257031	Aug 05 2023	18:13:49.005222	AL_TRIP_H1 Off	
24257030	Aug 05 2023	18:13:48.075375	PHASE UV2 DPO A	
24257029	Aug 05 2023	18:13:48.075375	PHASE UV1 DPO A	
24257028	Aug 05 2023	18:13:48.075375	SRC1 VT FF VOL LOSS	
24257027	Aug 05 2023	18:13:48.060381	PHASE UV2 PKP A	
24257026	Aug 05 2023	18:13:48.055378	PHASE UV1 DPO B	
24257025	Aug 05 2023	18:13:48.055378	PHASE UV1 PKP A	
24257024	Aug 05 2023	18:13:48.045374	PHASE UV2 DPO C	
24257023	Aug 05 2023	18:13:48.045374	PHASE UV1 DPO C	
24257022	Aug 05 2023	18:13:48.045374	PHASE UV1 PKP B	
24257021	Aug 05 2023	18:13:48.035371	AL_27/59P Off	
24257020	Aug 05 2023	18:13:48.035371	AUX UV1 DPO	
24257019	Aug 05 2023	18:13:48.035371	PHASE UV2 PKP C	
24257018	Aug 05 2023	18:13:48.035371	PHASE UV1 PKP C	
24257017	Aug 05 2023	18:13:48.025367	PHASE TOC1 DPO C	
24257016	Aug 05 2023	18:13:48.025367	NEUTRAL TOC1 DPO	
24257015	Aug 05 2023	18:13:48.005359	TRIP_TDD_EDE Off	
24257014	Aug 05 2023	18:13:48.005359	TRIP-1 Off	
24257013	Aug 05 2023	18:13:48.005359	TX2_TDD Off	
24257012	Aug 05 2023	18:13:48.005359	OSILOGRAFIA Off	
24257011	Aug 05 2023	18:13:48.005359	TRIP 52H1 Off	
24257010	Aug 05 2023	18:13:48.005359	PHASE IOC1 DPO C	
24257009	Aug 05 2023	18:13:48.000285	ST_52H1_AB On	Confirmación Apertura 52H1
24257008	Aug 05 2023	18:13:47.986286	ST_52H1_CE Off	
24257007	Aug 05 2023	18:13:47.950400	TRIP_TDD_EDE On	
24257006	Aug 05 2023	18:13:47.950400	TRIP-1 On	
			OSCILLOGRAPHY	
24257005	Aug 05 2023	18:13:47.950400	TRIG'D	
24257004	Aug 05 2023	18:13:47.950400	AL_TRIP_H1 On	
24257003	Aug 05 2023	18:13:47.950400	TX2_TDD On	
24257002	Aug 05 2023	18:13:47.950400	OSILOGRAFIA On	

**INFORME DE FALLA**  
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INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

24257001	Aug 05 2023	18:13:47.950400	TRIP 52H1 On	Orden de Trip
24257000	Aug 05 2023	18:13:47.950400	PHASE IOC1 OP C	Activación Sobrecorriente Instantánea fase C
24256999	Aug 05 2023	18:13:47.785547	PHASE TOC1 DPO B	
24256998	Aug 05 2023	18:13:47.618067	PHASE IOC1 PKP C	
24256997	Aug 05 2023	18:13:47.615569	PHASE TOC1 PKP B	
24256996	Aug 05 2023	18:13:47.605573	AL_27/59P On	
24256995	Aug 05 2023	18:13:47.605573	PHASE TOC1 PKP C	
24256994	Aug 05 2023	18:13:47.605573	NEUTRAL TOC1 PKP	
24256993	Aug 05 2023	18:13:47.605573	AUX UV1 OP	
24256992	Aug 05 2023	18:13:47.605573	AUX UV1 PKP	
24256991	Aug 05 2023	18:13:47.598075	NTRL DIR OC1 FWD	
24256990	Aug 05 2023	18:13:47.408081	PH DIR2 BLK C	
24256989	Aug 05 2023	18:13:47.400581	PH DIR2 BLK A	
24256988	Aug 05 2023	18:13:47.145618	PH DIR2 BLK B	
24256987	Aug 05 2023	18:13:47.140618	PH DIR2 BLK A	
24256986	Aug 04 2023	11:37:14.874303	PH DIR2 BLK C	
24256985	Aug 04 2023	11:37:14.856839	PH DIR2 BLK C	
24256984	Aug 04 2023	11:37:14.846864	PH DIR2 BLK B	

**Registro Secuencial de eventos Relé GE F60 Paño H1 SE El Edén.**

En la secuencia de eventos, se observa en el evento N°24257000 la activación Sobrecorriente Instantánea fase C (PHASE IOC1 OP C) seguido de esto, en el evento N° 24257001 el relé da la orden de Trip, posterior a esto en el evento N° 24257009 se observa la confirmación de la apertura del interruptor 52H1 después de 49.8 milisegundos. mientras que en el evento N° 24257033 se confirma el cierre del interruptor.

**INFORME DE FALLA**  
**REQUERIMIENTO NORMA TÉCNICA DE SyCS**

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

**7.2.2 Análisis Actuación de Esquema de Protección 2**

**7.2.3 SE El Edén - Paño H1**

**7.2.3.1 Sistema 2**

**Relé GE D60**

**Elemento protegido (A direccional): 110kV LT El Edén – Alto del Carmen**

- **Reporte de Evento.**

PARAMETER	TIMESTAMP	DETAILS
Fault Report 16	08/05/23 18:13:34	<a href="#">View</a>
Fault Report 15	07/23/23 14:15:36	<a href="#">View</a>
Fault Report 14	07/15/23 11:17:02	<a href="#">View</a>
Fault Report 13	11/06/22 09:37:12	<a href="#">View</a>
Fault Report 12	04/01/22 11:45:53	<a href="#">View</a>
Fault Report 11	10/30/18 07:44:30	<a href="#">View</a>
Fault Report 10	10/30/18 05:46:27	<a href="#">View</a>
Fault Report 9	10/30/18 05:46:25	<a href="#">View</a>
Fault Report 8	08/01/18 13:47:02	<a href="#">View</a>
Fault Report 7	03/04/17 06:54:19	<a href="#">View</a>
Fault Report 6	03/25/15 12:17:31	<a href="#">View</a>
Fault Report 5	03/25/15 04:41:50	<a href="#">View</a>
Fault Report 4	03/24/15 19:59:57	<a href="#">View</a>
Fault Report 3	07/14/14 08:52:40	<a href="#">View</a>
Fault Report 2	01/14/14 06:10:29	<a href="#">View</a>

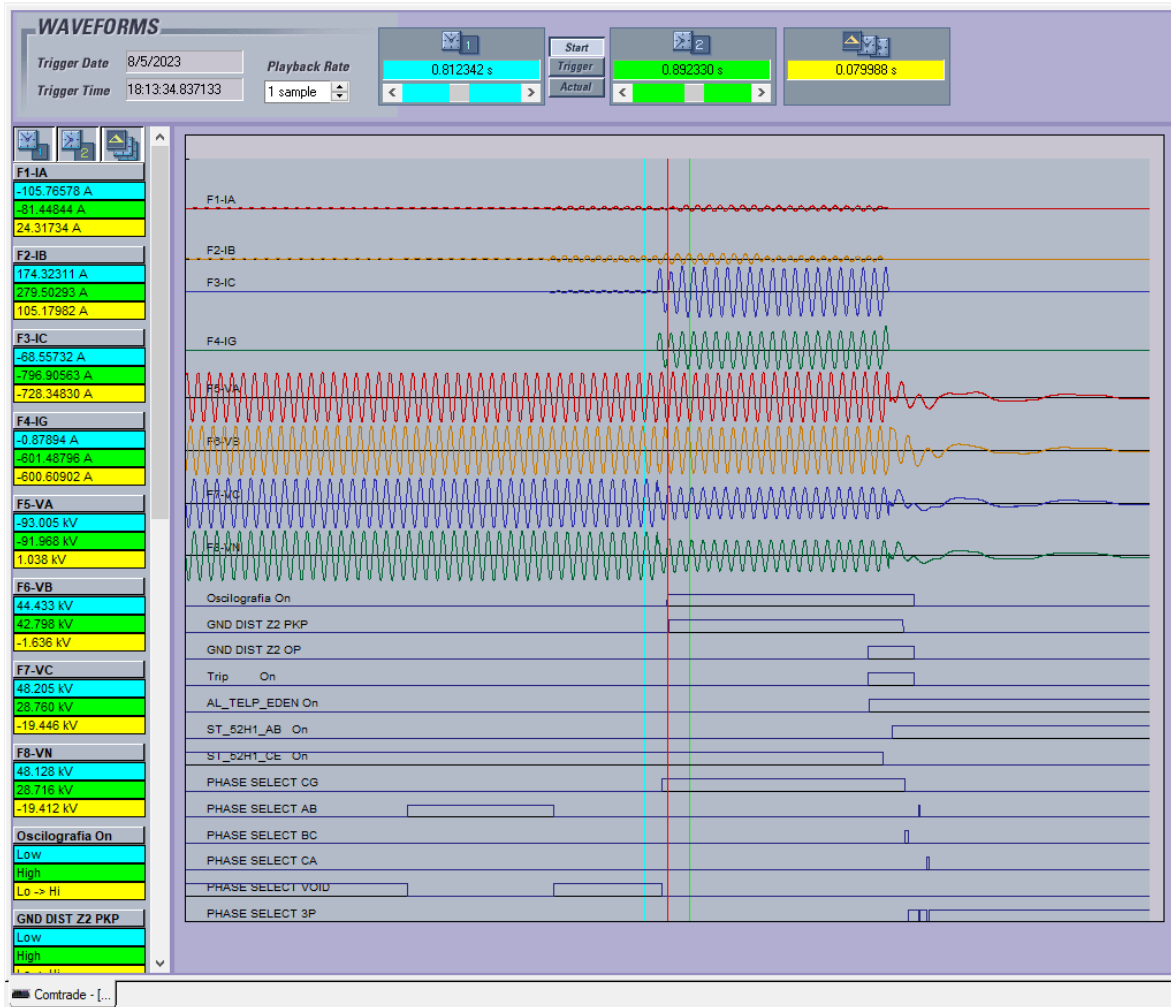
**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA Nº: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

Fault Report Data:				
Fault Number	16	ActiveSettingGroup	1	
Relay Name	VLN-H1-S1-D60	EventNumberAtTrigger	20535060	
FirmwareRevision	5.21	FaultType	CG	
DateAndTime	2023/08/05 18:13:34.377	Location	24.5	
TriggerOperand	Trip On	LocationUnits	km	
LineID	SRC 1	ShotCount	0	
Operated Elements:				
Element 1	PHASE TOC2	Element 8	GND DIST Z1	
Element 2	PH DIR2	Element 9	GND DIST Z2	
Element 3	NEUTRAL TOC2	Element 10	SRC1 VT FF	
Element 4	NTRL DIR OC1	Element 11	SRC1 50DD	
Element 5	PHASE UV1	Element 12	R B P	
Element 6	PHASE OV1	Element 13	R B Q	
Element 7	PH DIST Z2			
Prefault and Fault Phasors:				
Signal	Prefault Magnitude	Prefault Angle	Fault Magnitude	Fault Angle
Ia	7.470 A	89.0 deg	111.695 A	232.0 deg
Ib	8.789 A	335.5 deg	115.858 A	235.6 deg
Ic	9.068 A	202.4 deg	1093.437 A	61.5 deg
Va	66685.501 V	0.0 deg	67520.825 V	0.4 deg
Vb	66640.726 V	239.8 deg	65097.155 V	240.4 deg
Vc	66365.710 V	119.9 deg	42027.108 V	117.4 deg

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

- Registro oscilografico de evento.



**Oscilografía Evento Relé GE D60 SE El Edén.**

En la oscilografía anterior se observa falla entre la fase C a tierra, lo que provoca la operación del relé GE D60 por medio de su elemento de protección de distancia de fase (21) en zona 2 (GND DIST Z2 OP C) de forma instantánea, dando la orden de apertura sobre el interruptor 52H1 de SE Tap Off El Edén.



**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

• **Registro Secuencial de Evento.**

Event Number	Date	Time	Cause	Comentario
20535127	Aug 09 2023	17:45:28.680184	PHASE UV1 OP A	
20535126	Aug 09 2023	17:45:28.680184	PHASE UV1 PKP A	
20535125	Aug 06 2023	13:57:45.674305	AL_27-59 Off	
20535124	Aug 06 2023	13:57:45.674305	PHASE UV1 DPO C	
20535123	Aug 06 2023	13:57:45.589238	AL_27-59 On	
20535122	Aug 06 2023	13:57:45.589238	PHASE UV1 OP C	
20535121	Aug 06 2023	13:57:45.589238	PHASE UV1 PKP C	
20535120	Aug 05 2023	21:52:02.771138	PH DIR2 BLK C	
20535119	Aug 05 2023	21:52:02.768627	PH DIR2 BLK A	
20535118	Aug 05 2023	21:52:02.766117	PH DIR2 BLK B	
20535117	Aug 05 2023	20:43:21.635265	AR ZONE 1 EXTENT	
20535116	Aug 05 2023	20:43:21.635265	AR ENABLED	
20535115	Aug 05 2023	20:43:21.635265	LATCH 1 OFF	
20535114	Aug 05 2023	20:42:39.618653	PH DIR2 BLK B	
20535113	Aug 05 2023	20:42:39.606186	PH DIR2 BLK B	
20535112	Aug 05 2023	20:42:39.588726	PH DIR2 BLK B	
20535111	Aug 05 2023	20:42:39.586230	PH DIR2 BLK A	
20535110	Aug 05 2023	20:42:39.578750	PH DIR2 BLK C	
20535109	Aug 05 2023	20:42:12.925533	PH DIR2 BLK C	
20535108	Aug 05 2023	20:42:12.905542	PH DIR2 BLK C	
20535107	Aug 05 2023	20:42:12.885552	PH DIR2 BLK C	
20535106	Aug 05 2023	20:42:12.810589	PH DIR2 BLK C	
20535105	Aug 05 2023	20:42:12.805592	PH DIR2 BLK B	
20535104	Aug 05 2023	20:42:12.805592	PH DIR2 BLK A	
20535103	Aug 05 2023	20:40:47.816475	CM_CERR_H1 Off	
20535102	Aug 05 2023	20:40:47.816475	CIERRE Off	
20535101	Aug 05 2023	20:40:47.816475	PHASE OV1 OP C	
20535100	Aug 05 2023	20:40:47.816475	PHASE OV1 PKP C	
20535099	Aug 05 2023	20:40:47.816475	PHASE OV1 OP B	
20535098	Aug 05 2023	20:40:47.816475	PHASE OV1 PKP B	
20535097	Aug 05 2023	20:40:47.816475	PHASE OV1 OP A	
20535096	Aug 05 2023	20:40:47.816475	PHASE OV1 PKP A	
20535095	Aug 05 2023	20:40:47.811477	AL_27-59 Off	
20535094	Aug 05 2023	20:40:47.811477	PHASE UV1 DPO C	
20535093	Aug 05 2023	20:40:47.811477	PHASE UV1 DPO B	
20535092	Aug 05 2023	20:40:47.806480	PHASE UV1 DPO A	
20535091	Aug 05 2023	20:40:47.786142	ST_52H1_CE On	Confirmación Cierre 52H1
20535090	Aug 05 2023	20:40:47.767643	ST_52H1_AB Off	
20535089	Aug 05 2023	20:40:47.693984	CM_CERR_H1 On	
20535088	Aug 05 2023	20:40:47.693984	CIERRE On	
20535087	Aug 05 2023	20:14:41.253987	AR DISABLED	
20535086	Aug 05 2023	20:14:41.253987	LATCH 1 ON	
20535085	Aug 05 2023	18:13:36.276563	AL_TELP_EDEN Off	

**INFORME DE FALLA**  
REQUERIMIENTO NORMA TÉCNICA DE SyCS

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

20535084	Aug 05 2023	18:13:36.276563	AL_TRIP Off	
20535083	Aug 05 2023	18:13:35.326942	PHASE OV1 DPO A	
20535082	Aug 05 2023	18:13:35.316940	PHASE OV1 DPO C	
20535081	Aug 05 2023	18:13:35.306948	PHASE OV1 DPO B	
20535080	Aug 05 2023	18:13:35.306948	SRC1 VT FF VOL LOSS	
20535079	Aug 05 2023	18:13:35.274444	TRIP_TDD_EDE Off	
20535078	Aug 05 2023	18:13:35.274444	TRIP Off	
20535077	Aug 05 2023	18:13:35.274444	TX2 TDD Off	
20535076	Aug 05 2023	18:13:35.274444	Oscilografia Off	
20535075	Aug 05 2023	18:13:35.274444	Trip Off	
20535074	Aug 05 2023	18:13:35.256943	PHASE TOC1 DPO C	
20535073	Aug 05 2023	18:13:35.256943	NEUTRAL TOC1 DPO	
20535072	Aug 05 2023	18:13:35.256943	PHASE UV1 OP B	
20535071	Aug 05 2023	18:13:35.256943	PHASE UV1 PKP B	
20535070	Aug 05 2023	18:13:35.254442	GND DIST Z3 DPO C	
20535069	Aug 05 2023	18:13:35.254442	GND DIST Z2 DPO C	
20535068	Aug 05 2023	18:13:35.254442	PH DIST Z3 DPO CA	
20535067	Aug 05 2023	18:13:35.251945	AR BKR1 BLK	
20535066	Aug 05 2023	18:13:35.251945	PHASE UV1 OP A	
20535065	Aug 05 2023	18:13:35.251945	PHASE UV1 PKP A	
20535064	Aug 05 2023	18:13:35.239449	PH DIST Z3 DPO BC	
20535063	Aug 05 2023	18:13:35.231916	ST_52H1_AB On	Confirmación Apertura 52H1
20535062	Aug 05 2023	18:13:35.216913	ST_52H1_CE Off	
20535061	Aug 05 2023	18:13:35.194486	AL_TELP_EDEN On	
20535060	Aug 05 2023	18:13:35.194486	FAULT RPT TRIG	
20535059	Aug 05 2023	18:13:35.191990	TRIP_TDD_EDE On	
20535058	Aug 05 2023	18:13:35.191990	TRIP On	
20535057	Aug 05 2023	18:13:35.191990	TX2 TDD On	
20535056	Aug 05 2023	18:13:35.191990	AL_TRIP On	
20535055	Aug 05 2023	18:13:35.191990	Trip On	Orden de Trip
20535054	Aug 05 2023	18:13:35.191990	GND DIST Z2 OP C	Activación Elemento Distancia
20535053	Aug 05 2023	18:13:35.017133	PHASE TOC1 DPO B	
20535052	Aug 05 2023	18:13:34.849629	PH DIST Z3 PKP CA	
20535051	Aug 05 2023	18:13:34.847128	PHASE TOC1 PKP B	
20535050	Aug 05 2023	18:13:34.842130	AL_27-59 On	
20535049	Aug 05 2023	18:13:34.842130	PHASE UV1 OP C	
20535048	Aug 05 2023	18:13:34.842130	PHASE UV1 PKP C	
20535047	Aug 05 2023	18:13:34.839632	GND DIST Z2 PKP C	
20535046	Aug 05 2023	18:13:34.839632	PH DIST Z3 PKP BC	
20535045	Aug 05 2023	18:13:34.837133	OSCILLOGRAPHY TRIG'D	
20535044	Aug 05 2023	18:13:34.837133	Oscilografia On	
20535043	Aug 05 2023	18:13:34.837133	PHASE TOC1 PKP C	
20535042	Aug 05 2023	18:13:34.837133	NEUTRAL TOC1 PKP	
20535041	Aug 05 2023	18:13:34.834632	GND DIST Z3 PKP C	
20535040	Aug 05 2023	18:13:34.829634	NTRL DIR OC1 FWD	
20535039	Aug 05 2023	18:13:34.639611	PH DIR2 BLK C	

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20535038	Aug 05 2023	18:13:34.632115	PH DIR2 BLK A
20535037	Aug 05 2023	18:13:34.377181	PH DIR2 BLK B
20535036	Aug 05 2023	18:13:34.372183	PH DIR2 BLK A
20535035	Aug 04 2023	11:37:03.480881	PH DIR2 BLK C
20535034	Aug 04 2023	11:37:03.463416	PH DIR2 BLK C
20535033	Aug 04 2023	11:37:03.453440	PH DIR2 BLK B
20535032	Jul 31 2023	15:50:43.035911	AR ZONE 1 EXTENT
20535031	Jul 31 2023	15:50:43.035911	AR ENABLED
20535030	Jul 31 2023	15:50:43.035911	LATCH 1 OFF

**Registro Secuencial de eventos Relé GE D60 Paño H1 SE El Edén.**

En la secuencia de eventos, se observa en el evento N° 20535054 la activación del elemento de distancia residual zona 2 Fase C (GND DIST Z2 OP C), seguido de esto en el evento N° 20535055 el relé da la orden de Trip, posterior a esto en el evento N° 20535063 se observa la confirmación de la apertura del interruptor 52H1 después de 39,9 milisegundos. mientras que en el evento N° 20535091 se confirma el cierre del interruptor.

**8. ACCIONES CORRECTIVAS.**

**8.1.** Acciones Correctivas de Corto Plazo.

Se realizó revisión e inspección del vano AT comprendido entre las E161 y E162, lugar donde se produjo la caída del conductor de MT de distribución sobre línea de Transmisión, encontrando todo en condiciones normales, descartando así alguna situación que pudiese presentar complicaciones a futuro.

**8.2.** Acciones correctivas de Largo Plazo.

No se requieren acciones correctivas de Largo Plazo.

INFORME (s) QUINTO DÍA N°: IF 2023003231	FECHA DE FALLA: 05 de agosto 2023
INSTALACIÓN (ES): LT 110 kV Tap El Edén – Alto del Carmen	

## **9. CONCLUSIONES.**

De acuerdo con los antecedentes expuestos en el presente informe, en particular la información obtenida de los relés GE-F60 y GE-D60 del paño H1 de S/E Tap Off El Edén, se concluye como correcto el comportamiento de los elementos de protección que despejan una falla entre fase C y tierra, debido a la caída de conductor de MT de distribución sobre los vanos estructuras N°161 y N°162 de la línea de transmisión LT 110 kV El Edén – Alto del Carmen.

## **10. ANALISIS CONJUNTO.**

A las 14:14hrs. del día 05-08-2023 se produce la desconexión de la línea de transmisión 110kV El Edén – Alto del Carmen por la caída de conductor de MT del alimentador San Felix propiedad de CGE distribución sobre el vano entre las estructuras N°161 y N°162 de la línea de transmisión antes mencionada, provocando el desprendimiento de 0,70MW, afectando los consumos de la subestación Alto del Carmen. Recuperándose la totalidad de los consumos afectados a las 16:43hrs.

## **11. ANEXOS.**

- I. ANEXOS I. SETTING DE PROTECCIONES (PRINT OUT)**
- II. ANEXO II. INFORME DE INTERRUPCIÓN DE SUMINISTRO.**
- III. ANEXO III. PROBATORIOS.**
- IV. ANEXO IV. DECLARACIÓN JURADA.**
- V. ANEXO V ESTAMPA DE TIEMPO SINCRONIZAD**

INFORME DE INTERRUPCIÓN DE  
SUMINISTRO  
(RES EX 30989)

FECHA DEL INFORME:

EMPRESA: CGE Transmisión S.A.

**1. INFORMACIÓN DE LA INTERRUPCIÓN**

CAUSA DE LA INTERRUPCIÓN	OPE6 DESCONEXIÓN DEBIDO A FALLA EN INSTALACIONES DE DISTRIBUCIÓN.
INSTALACION_ID	ID 298 EL EDEN - ALTO DEL CARMEN 110KV
PROPIETARIO DE LA INSTALACION O EQUIPO DONDE OCURRIÓ LA FALLA	CGE TRANSMISIÓN S.A
RUT PROPIETARIO INSTALACIÓN O EQUIPO	77.465.741-K
NOMBRE DE LA INSTALACIÓN ASOCIADA	LT 110 KV EL EDEN-ALTO DEL CARMEN
PUNTO DE FALLA N°	ENTRE LAS ESTRUCTURAS N° 161 Y N°162
DISPOSITIVO OPERADO	2698 IM TAP OFF EL EDEN H1
COMUNAS AFECTADAS	ID 3304_ALTO DEL CARMEN
CANTIDAD CLIENTES AFECTADOS	CONSUMOS DE CGE
FECHA Y HORA INICIO INTERRUPCIÓN	05/08/2023 -14:14 HRS
FECHA Y HORA TÉRMINO INTERRUPCIÓN	05/08/2023 -16:43 HRS

## **2. DESCRIPCIÓN DE LA INTERRUPCIÓN**

### **2.1 DESCRIPCIÓN DE LOS HECHOS Y DE LAS CIRCUNSTANCIAS**

A Las 14:14 hrs. del día 05-08-2023 se produce la desconexión forzada de la línea de transmisión 110kV El Edén – Alto del Carmen, por caída de conductor de alimentador de distribución, sobre el vano entre las estructuras N° 161 y 162 de la línea de transmisión LT 110 kV El Edén-alto del Carmen, provocando la actuación de las protecciones del paño H1 de Tap-off El Edén.

### **2.2 ELEMENTOS MÍNIMOS REQUERIDOS QUE ACREDITAN IMPREVISIBILIDAD (Según R.Ex. N° 15704/2016).**

No existe manera de anticipar la ocurrencia de este hecho (ver respaldo fotográfico en anexo probatorio). Considerando la naturaleza de este hecho externo a las instalaciones de CGE Transmisión S.A.

### **2.3 ELEMENTOS MÍNIMOS REQUERIDOS QUE ACREDITAN IRRESISTIBILIDAD (Según R.Ex. N° 15704/2016)**

No hay forma de evitar la ocurrencia de este tipo de evento, considerando la naturaleza de este, no es posible impedir la acción fortuita de que este ocurra.

### **2.4 ELEMENTOS MÍNIMOS REQUERIDOS QUE ACREDITAN EXTERIORIDAD (Según R.Ex. N° 15704/2016)**

Caída de conductor de alimentador de distribución sobre línea de transmisión, es un hecho externo a CGE Transmisión S.A.



# PROBATORIOS

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## PROBATORIOS OBLIGATORIOS SEGÚN LA CAUSAL ESGRIMIDA

1. Registro Fotográfico con fecha, hora y geolocalización:

**Estructura 268 línea de distribución.**



**Fotografía N° 1:** Estructura madera M.T. ubicada en el cerro, cruceta de madera torcida.



**Fotografía N° 2:**





LA\_EDEN\_ALTO\_DEL\_CARMEN  
05/08/2023 18:14:42



LA\_EDEN\_ALTO\_DEL\_CARMEN  
-28°44'37", -70°29'59", 792.2m  
05/08/2023 18:10:43

Fotografía Nº 3 y 4: Estructura madera M.T. ubicada en el cerro, cruceta de madera torcida

Estructura 269 línea de distribución.



Línea Eden - Alto del Carmen  
-28° 44' 44"  
-70° 29' 55"  
06/08/2023

Fotografía Nº 5: Líneas cortadas Red de distribución.



Línea Eden Alto del Carmen  
-28° 44' 44"  
-70° 29' 56"  
06/08/2023

Fotografía Nº 6: Líneas cortadas Red de distribución.





Fotografía N° 7 y 8: Estructura madera M.T. ubicada al interior de parronal.

Estructura 270 línea de distribución.



Fotografía N° 9: Estructura madera M.T. circuito alimenta S/E 4816 – 30kVA (particular).



Fotografía N° 10: Estructura madera M.T. circuito alimenta S/E 4816 – 30kVA (particular).

2. Gestiones preventivas y/o coordinaciones realizadas por la empresa (en caso de ser procedente, según sea la causa).

No aplica.

3. Registro de Orden de autoridad (en caso de ser procedente, según sea la causa)

No aplica.

4. Registro Solicitud de Organismo de Emergencia u Orden (En caso de ser procedente, según sea la causa).

No aplica.

5. Parte Policial o Declaración Notarial (en caso de ser procedente, según sea la causa)

No aplica

6. Informe con antecedentes que permitan referenciar evento (en caso de ser procedente, según sea la causa)

No aplica.

7. Informar si la instalación ha sido afectada por la misma falla en el transcurso de los últimos 24 meses.

No fallas anteriores con el mismo fenómeno físico:

8. Otros probatorios, si la empresa que postula lo estima pertinente.

No aplica.

## DECLARACIÓN JURADA

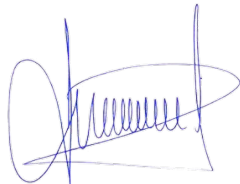
En Alto del Carmen, a 05 de agosto de 2023, Yo, Claudio Araya Arcos, Cédula de Identidad N° 13.532.374-8, en mi calidad de Gerente de Transmisión Norte y en representación de la empresa eléctrica CGE Transmisión RUT N° 77.465.741-k, domiciliada Av. Presidente Riesco N° 5561 P14, las Condes, Santiago, Chile, declaro bajo juramento que:

La falla y/o interrupción de suministro ocurrida con fecha 05 de agosto del 2023, a las 14:14 hrs., se debió a la siguiente causa; Apertura de interruptor 52H1 de Tap – Off El Edén, debido a la actuación del sistema de protecciones, por caída de conductor de alimentador de distribución sobre el vano entre las estructuras N° 161 y 162 de la línea de transmisión LT 110 kV El Edén – Alto del Carmen.

Los hechos que originaron la falla fueron los siguientes: falla monofásica a tierra, provocada por la caída de conductor de distribución sobre el vano entre las estructuras N° 161 y 162 de la LT 110 kV El Edén-Alto del Carmen.

Se formula la presente declaración para ser presentada ante la Superintendencia de Electricidad y Combustibles.

Se adjunta informe de falla realizado por personal técnico y administrativo, que trabajó directamente en las reparaciones de la instalación afectada y en el restablecimiento de suministro eléctrico a causa de la falla.



Claudio Flavio Araya Arcos  
13.532.374-8  
Gerente de Transmisión Norte

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

**PRODUCT SETUP**

SECURITY

Command Password	0
Setting Password	0

DISPLAY PROPERTIES

Flash Message Time	1.0 s
Default Message Timeout	120 s
Default Message Intensity (VFD Only)	25 %
Screen Saver Feature (LCD Only)	Enabled
Screen Saver Wait Time (LCD Only)	1 min
Current Cutoff Level	0.020 pu
Voltage Cutoff Level	1.0 V

**COMMUNICATIONS**

SERIAL PORTS

RS485 Com2 Baud Rate	19200
RS485 Com2 Parity	None
RS485 Com2 Response Min Time	0 ms

NETWORK

IP Address	192. 0. 12. 51
IP Subnet Mask	255.255.255. 0
Gateway IP Address	192. 0. 12.254
Ethernet Operation Mode	Full-Duplex

MODBUS PROTOCOL

Modbus Slave Address	5
Modbus TCP Port Number	502

DNP PROTOCOL

DNP Channel 1 Port	NETWORK - TCP
DNP Channel 2 Port	NETWORK - TCP
DNP Address	51
DNP Client Address 1	192. 0. 12. 60
DNP Client Address 2	192. 0. 23.250
DNP Client Address 3	0. 0. 0. 0
DNP Client Address 4	0. 0. 0. 0
DNP Client Address 5	0. 0. 0. 0
DNP TCP/UDP Port Number	20000
DNP Unsol Resp Function	Enabled
DNP Unsol Resp Timeout	5 s
DNP Unsol Resp Max Retries	10
DNP Unsol Resp Dest Addr	1000
DNP Current Scale Factor	0.1
DNP Voltage Scale Factor	10
DNP Power Scale Factor	1000
DNP Energy Scale Factor	1
DNP Power Factor Scale Factor	0.001
DNP Other Scale Factor	0.01
DNP Current Default Deadband	5
DNP Voltage Default Deadband	1
DNP Power Default Deadband	5
DNP Energy Default Deadband	30000
DNP Power Factor Default Deadband	10
DNP Other Default Deadband	5
DNP Time Sync IIN Period	1440 min
DNP Message Fragment Size	240
DNP Number of Paired Controls	0
DNP TCP Connection Timeout	300 s
DNP Object 1 Default Variation	2
DNP Object 2 Default Variation	2
DNP Object 30 Default Variation	2
DNP Object 20 Default Variation	1
DNP Object 21 Default Variation	1
DNP Object 22 Default Variation	1
DNP Object 23 Default Variation	1
DNP Object 32 Default Variation	2

DNP - IEC104 POINTS LISTS

DNP Binary Input Point 0	AL_TRIP On (VO12)
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**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

DNP - IEC104 POINTS LISTS (continued from last page)

DNP Binary Input Point 1	AL_TELP_EDEN On (VO13)
DNP Binary Input Point 2	AL_LOP On (VO14)
DNP Binary Input Point 3	AL_27-59 On (VO15)
DNP Binary Input Point 4	AL_FI_TEL_RH On (VO16)
DNP Binary Input Point 5	AL_TELP_RH On (VO17)
DNP Binary Input Point 6	ST_52H1_AB On(H7a)
DNP Binary Input Point 7	ST_52H1_CE On(H7c)
DNP Binary Input Point 8	ST_79_BLOCK On (VO8)
DNP Binary Input Point 9	ST_79_NORM On (VO9)
DNP Binary Input Point 10	ST_52H1_RH On(P7a)
DNP Analog Input Point 0	SRC1 V_1 Mag
DNP Analog Input Point 1	SRC1 Vab Mag
DNP Analog Input Point 2	SRC1 Vbc Mag
DNP Analog Input Point 3	SRC1 Vca Mag
DNP Analog Input Point 4	SRC1 I_1 Mag
DNP Analog Input Point 5	SRC1 Ia Mag
DNP Analog Input Point 6	SRC1 Ib Mag
DNP Analog Input Point 7	SRC1 Ic Mag
DNP Analog Input Point 8	SRC1 P
DNP Analog Input Point 9	SRC1 Q
DNP Analog Input Point 10	SRC1 S
DNP Analog Input Point 11	SRC1 PF
DNP Analog Input Point 12	SRC1 Frequency
DNP Analog Input Point 13	Fault Ia Mag [1]
DNP Analog Input Point 14	Fault Ib Mag [1]
DNP Analog Input Point 15	Fault Ic Mag [1]
DNP Analog Input Point 16	Fault Location [1]
DNP Analog Input Point 17	Fault Type [1]

HTTP

HTTP TCP Port Number	80
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TFTP

TFTP Main UDP Port Number	69
TFTP Data UDP Port Number 1	0
TFTP Data UDP Port Number 2	0

MODBUS USER MAP

Address 1	5376
Address 2	5377
Address 3	5378
Address 4	5379
Address 5	5380
Address 6	5381
Address 7	5416
Address 8	5417
Address 9	5418
Address 10	5419
Address 11	5420
Address 12	5421
Address 13	2304
Address 14	2305
Address 15	2306
Address 16	2307
Address 21	13312
Address 22	13313
Address 23	13504
Address 24	13505
Address 25	13506
Address 26	13507
Address 27	13508
Address 28	13509
Address 29	13510
Address 30	13511
Address 31	13512
Address 32	13513
Address 33	13514
Address 34	13515
Address 35	13516
Address 36	13517

QUICK CONNECT

QUICK CONNECT DEVICE

DEVICE DEFINITION

ORDER CODE: D60-G00-HCH-F8F-H6B-P6B

VERSION: 5.2X

DESCRIPTION: (NONE)

INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502

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MODBUS USER MAP (continued from last page)

Address 37	13518
Address 38	13519
Address 39	13520
Address 40	13521
Address 41	13522
Address 42	13523
Address 43	13524
Address 44	13525
Address 45	13526
Address 46	13527
Address 47	13528
Address 48	13529
Address 49	13530
Address 50	13531
Address 51	13532
Address 52	13533
Address 53	13534
Address 54	13535
Address 55	6677
Address 56	6678
Address 57	6680
Address 58	6681
Address 59	6683
Address 60	6684
Address 61	6688
Address 62	6689
Address 63	6152
Address 64	6153
Address 65	6155
Address 66	6156
Address 67	6158
Address 68	6159
Address 69	7168
Address 70	7169
Address 71	7176
Address 72	7177
Address 73	7192
Address 75	6741
Address 76	6742
Address 77	6744
Address 78	6745
Address 79	6747
Address 80	6748
Address 81	6752
Address 82	6753
Address 83	6216
Address 84	6217
Address 85	6219
Address 86	6220
Address 87	6222
Address 88	6223
Address 89	7200
Address 90	7201
Address 91	7208
Address 92	7209
Address 93	7224
Address 95	6805
Address 96	6806
Address 97	6808
Address 98	6809
Address 99	6811
Address 100	6812
Address 101	6816
Address 102	6817
Address 103	6280
Address 104	6281
Address 105	6283
Address 106	6284
Address 107	6286
Address 108	6287

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

MODBUS USER MAP (continued from last page)

Address 109	7232
Address 110	7233
Address 111	7240
Address 112	7241
Address 113	7256
Address 115	6869
Address 116	6870
Address 117	6872
Address 118	6873
Address 119	6875
Address 120	6876
Address 121	6880
Address 122	6881
Address 123	6344
Address 124	6345
Address 125	6347
Address 126	6348
Address 127	6350
Address 128	6351
Address 129	7264
Address 130	7265
Address 131	7272
Address 132	7273
Address 133	7288
Address 135	6933
Address 136	6934
Address 137	6936
Address 138	6937
Address 139	6939
Address 140	6940
Address 141	6944
Address 142	6945
Address 143	6408
Address 144	6409
Address 145	6411
Address 146	6412
Address 147	6414
Address 148	6415
Address 149	7296
Address 150	7297
Address 151	7304
Address 152	7305
Address 153	7320
Address 155	7552
Address 157	45584
Address 189	6172
Address 193	6694
Address 195	6236
Address 199	6758
Address 201	6300
Address 205	6822
Address 207	6364
Address 211	6886
Address 213	6428
Address 217	6950
Address 219	6492
Address 223	7014

REAL TIME CLOCK

IRIG-B Signal Type	DC Shift
Real Time Clock Events	Enabled
Time Zone Offset	0.0 hr
DST Function	Disabled

FAULT REPORT

Fault Report 1 Source	SRC 1 (SRC 1)
Fault Report 1 Trigger	Trip On (VO1)
Fault Report 1 Positive Seq (Z1) Mag	1.35 ohms
Fault Report 1 Positive Seq (Z1) Angle	60 deg
Fault Report 1 Zero Seq (Z0) Mag	2.91 ohms



**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

**FAULT REPORT** (continued from last page)

Fault Report 1 Zero Seq (Z0) Angle	72 deg
Fault Report 1 Line Length Units	km
Fault Report 1 Line Length	42.0
Fault Report 1 VT Substitution	None
Fault Report 1 System Z0 Mag	2.00 ohms
Fault Report 1 System Z0 Angle	75 deg

**OSCILLOGRAPHY**

Number Of Records	5
Trigger Mode	Automatic Overwrite
Trigger Position	50 %
Trigger Source	Oscilografia On (VO2)
AC Input Waveforms	64 samples/cycle
Digital Channel 1	PHASE UV1 OP
Digital Channel 2	PHASE UV2 OP
Digital Channel 3	PHASE OV1 OP
Digital Channel 4	LINE PICKUP OP
Digital Channel 5	PH DIST Z1 PKP
Digital Channel 6	PH DIST Z1 OP
Digital Channel 7	PH DIST Z2 PKP
Digital Channel 8	PH DIST Z2 OP
Digital Channel 9	PH DIST Z3 PKP
Digital Channel 10	PH DIST Z3 OP
Digital Channel 11	GND DIST Z1 PKP
Digital Channel 12	GND DIST Z1 OP
Digital Channel 13	GND DIST Z2 PKP
Digital Channel 14	GND DIST Z2 OP
Digital Channel 15	GND DIST Z3 PKP
Digital Channel 16	GND DIST Z3 OP
Digital Channel 17	PHASE TOC1 PKP
Digital Channel 18	PHASE TOC1 OP
Digital Channel 19	PHASE IOC1 OP
Digital Channel 20	PHASE TOC2 PKP
Digital Channel 21	PHASE TOC2 OP
Digital Channel 22	NEUTRAL TOC1 OP
Digital Channel 23	NEUTRAL TOC2 OP
Digital Channel 24	PH DIST Z4 PKP
Digital Channel 25	PH DIST Z4 OP
Digital Channel 26	AR RIP
Digital Channel 27	AR LO
Digital Channel 28	AR RESET
Digital Channel 29	AR DISABLED
Digital Channel 30	AR ENABLED
Digital Channel 31	PH DIST Z5 PKP
Digital Channel 32	PH DIST Z5 OP
Digital Channel 33	SRC1 VT FUSE FAIL OP
Digital Channel 34	SRC1 VT FUSE FAIL VOL LOSS
Digital Channel 35	Trip On (VO1)
Digital Channel 36	AL_TELP_EDEN On (VO13)
Digital Channel 37	AL_LOP On (VO14)
Digital Channel 38	AL_27-59 On (VO15)
Digital Channel 39	AL_TELP_RH On (VO17)
Digital Channel 40	ST_52H1_AB On(H7a)
Digital Channel 41	ST_52H1_CE On(H7c)
Digital Channel 42	ST_ADD_RH On(P8c)
Digital Channel 43	ST_52H1_RH On (VO18)
Digital Channel 44	RX2 ADD On (VO19)
Digital Channel 45	TX1 ADD On (VO20)
Digital Channel 46	TX2 TDD On (VO21)
Digital Channel 53	PHASE SELECT AG
Digital Channel 54	PHASE SELECT BG
Digital Channel 55	PHASE SELECT CG
Digital Channel 56	PHASE SELECT AB
Digital Channel 57	PHASE SELECT BC
Digital Channel 58	PHASE SELECT CA
Digital Channel 59	PHASE SELECT ABG
Digital Channel 60	PHASE SELECT BCG
Digital Channel 61	PHASE SELECT CAG
Digital Channel 62	PHASE SELECT VOID
Digital Channel 63	PHASE SELECT 3P



**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

OSCILLOGRAPHY (continued from last page)

Analog Channel 1	SRC1	Ia RMS
Analog Channel 2	SRC1	Ib RMS
Analog Channel 3	SRC1	Ic RMS
Analog Channel 4	SRC1	In RMS
Analog Channel 5	SRC1	Vag RMS
Analog Channel 6	SRC1	Vbg RMS
Analog Channel 7	SRC1	Vcg RMS
Analog Channel 8	SRC1	I <sub>0</sub> Mag
Analog Channel 9	SRC1	I <sub>0</sub> Angle
Analog Channel 10	SRC1	V <sub>0</sub> Mag
Analog Channel 11	SRC1	V <sub>0</sub> Angle
Analog Channel 12	SRC1	V <sub>x</sub> RMS
Analog Channel 13	SRC1	P
Analog Channel 14	SRC1	Q
Analog Channel 15	SRC1	Frequency
Analog Channel 16		Fault Location [1]

DATA LOGGER

Data Logger Mode	Continuous
Data Logger Trigger	OFF
Rate	60000 msec
Configuration	0 CHNL x 0.0 DAYS

**USER-PROGRAMMABLE LEADS**

TRIP AND ALARMS LEADS

Trip LED Input	Trip On (VO1)
Alarm LED Input	ANY MAJOR ERROR

USER PROGRAMMABLE LEADS

LED 1: OPERAND	SETTING GROUP ACT 1
LED 1: TYPE	Self-Reset
LED 2: OPERAND	SETTING GROUP ACT 2
LED 2: TYPE	Self-Reset
LED 3: OPERAND	SETTING GROUP ACT 3
LED 3: TYPE	Self-Reset
LED 4: OPERAND	SETTING GROUP ACT 4
LED 4: TYPE	Self-Reset
LED 5: OPERAND	SETTING GROUP ACT 5
LED 5: TYPE	Self-Reset
LED 6: OPERAND	SETTING GROUP ACT 6
LED 6: TYPE	Self-Reset
LED 9: OPERAND	ST_52H1_AB On(H7a)
LED 9: TYPE	Self-Reset
LED 10: OPERAND	ST_52H1_CE On(H7c)
LED 10: TYPE	Self-Reset
LED 17: OPERAND	SYNC 1 SYNC OP
LED 17: TYPE	Self-Reset
LED 21: OPERAND	AR ENABLED
LED 21: TYPE	Self-Reset
LED 22: OPERAND	AR DISABLED
LED 22: TYPE	Self-Reset
LED 23: OPERAND	AR RIP
LED 23: TYPE	Self-Reset
LED 24: OPERAND	AR LO
LED 24: TYPE	Self-Reset
LED 25: OPERAND	PH DIST Z1 OP
LED 25: TYPE	Latched
LED 26: OPERAND	PH DIST Z2 OP
LED 26: TYPE	Latched
LED 27: OPERAND	PH DIST Z3 OP
LED 27: TYPE	Latched
LED 28: OPERAND	GND DIST Z1 OP
LED 28: TYPE	Latched
LED 29: OPERAND	GND DIST Z2 OP
LED 29: TYPE	Latched
LED 30: OPERAND	GND DIST Z3 OP
LED 30: TYPE	Latched
LED 33: OPERAND	LINE PICKUP OP
LED 33: TYPE	Latched
LED 34: OPERAND	PHASE TOC1 OP

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

USER PROGRAMMABLE LEDES (continued from last page)

LED 34: TYPE	Latched
LED 35: OPERAND	PHASE IOC1 OP
LED 35: TYPE	Latched
LED 36: OPERAND	NEUTRAL IOC1 OP
LED 36: TYPE	Latched

USER-PROGRAMMABLE SELF TESTS

Remote Device Off Function	Enabled
Battery Fail Function	Enabled
SNTP Fail Function	Enabled
IRIG B Fail Function	Enabled

CONTROL PUSHBUTTONS

CPB 1: Function	Enabled
CPB 1: Events	Disabled

USER-DEFINABLE DISPLAYS

USER DISPLAY 1: Top Line	Aperturas totales
USER DISPLAY 1: Bottom Line	52H1:~
USER DISPLAY 1: Item 1	2048
USER DISPLAY 1: Item 2	0
USER DISPLAY 1: Item 3	0
USER DISPLAY 1: Item 4	0
USER DISPLAY 1: Item 5	0
USER DISPLAY 2: Top Line	Operaciones totales
USER DISPLAY 2: Bottom Line	52H1:~
USER DISPLAY 2: Item 1	2056
USER DISPLAY 2: Item 2	0
USER DISPLAY 2: Item 3	0
USER DISPLAY 2: Item 4	0
USER DISPLAY 2: Item 5	0
USER DISPLAY 3: Top Line	Corrientes Ia:~
USER DISPLAY 3: Bottom Line	b:~ c:~
USER DISPLAY 3: Item 1	6144
USER DISPLAY 3: Item 2	6146
USER DISPLAY 3: Item 3	6148
USER DISPLAY 3: Item 4	0
USER DISPLAY 3: Item 5	0
USER DISPLAY 4: Top Line	Potencia Activa
USER DISPLAY 4: Bottom Line	3P: ~
USER DISPLAY 4: Item 1	7168
USER DISPLAY 4: Item 2	0
USER DISPLAY 4: Item 3	0
USER DISPLAY 4: Item 4	0
USER DISPLAY 4: Item 5	0
USER DISPLAY 5: Top Line	Potencia Reactiva
USER DISPLAY 5: Bottom Line	3P: ~
USER DISPLAY 5: Item 1	7176
USER DISPLAY 5: Item 2	0
USER DISPLAY 5: Item 3	0
USER DISPLAY 5: Item 4	0
USER DISPLAY 5: Item 5	0
USER DISPLAY 6: Top Line	Factor de Potencia
USER DISPLAY 6: Bottom Line	3P: ~
USER DISPLAY 6: Item 1	7192
USER DISPLAY 6: Item 2	0
USER DISPLAY 6: Item 3	0
USER DISPLAY 6: Item 4	0
USER DISPLAY 6: Item 5	0
USER DISPLAY 7: Top Line	Frecuencia Sistema
USER DISPLAY 7: Bottom Line	~
USER DISPLAY 7: Item 1	7552
USER DISPLAY 7: Item 2	0
USER DISPLAY 7: Item 3	0
USER DISPLAY 7: Item 4	0
USER DISPLAY 7: Item 5	0
USER DISPLAY 8: Top Line	Energia Activa Pos
USER DISPLAY 8: Bottom Line	~
USER DISPLAY 8: Item 1	7424
USER DISPLAY 8: Item 2	0

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

USER-DEFINABLE DISPLAYS (continued from last page)

USER DISPLAY 8: Item 3	0
USER DISPLAY 8: Item 4	0
USER DISPLAY 8: Item 5	0
USER DISPLAY 9: Top Line	Energia Activa Neg
USER DISPLAY 9: Bottom Line	~
USER DISPLAY 9: Item 1	7426
USER DISPLAY 9: Item 2	0
USER DISPLAY 9: Item 3	0
USER DISPLAY 9: Item 4	0
USER DISPLAY 9: Item 5	0
USER DISPLAY 10: Top Line	Energia Reactiva Pos
USER DISPLAY 10: Bottom Line	~
USER DISPLAY 10: Item 1	7428
USER DISPLAY 10: Item 2	0
USER DISPLAY 10: Item 3	0
USER DISPLAY 10: Item 4	0
USER DISPLAY 10: Item 5	0
USER DISPLAY 11: Top Line	Energia Reactiva Neg
USER DISPLAY 11: Bottom Line	~
USER DISPLAY 11: Item 1	7430
USER DISPLAY 11: Item 2	0
USER DISPLAY 11: Item 3	0
USER DISPLAY 11: Item 4	0
USER DISPLAY 11: Item 5	0
USER DISPLAY 13: Top Line	Fecha y Hora:
USER DISPLAY 13: Bottom Line	~
USER DISPLAY 13: Item 1	16800
USER DISPLAY 13: Item 2	0
USER DISPLAY 13: Item 3	0
USER DISPLAY 13: Item 4	0
USER DISPLAY 13: Item 5	0
USER DISPLAY 14: Top Line	EMELAT
USER DISPLAY 14: Bottom Line	S/E VALLENAR
USER DISPLAY 14: Item 1	0
USER DISPLAY 14: Item 2	0
USER DISPLAY 14: Item 3	0
USER DISPLAY 14: Item 4	0
USER DISPLAY 14: Item 5	0
USER DISPLAY 15: Top Line	L. ALTO DEL CARMEN
USER DISPLAY 15: Bottom Line	PROT. S1 (21/21N)
USER DISPLAY 15: Item 1	0
USER DISPLAY 15: Item 2	0
USER DISPLAY 15: Item 3	0
USER DISPLAY 15: Item 4	0
USER DISPLAY 15: Item 5	0
USER DISPLAY 16: Top Line	Ajuste: 07-10-2007
USER DISPLAY 16: Bottom Line	Firmware 5.21
USER DISPLAY 16: Item 1	0
USER DISPLAY 16: Item 2	0
USER DISPLAY 16: Item 3	0
USER DISPLAY 16: Item 4	0
USER DISPLAY 16: Item 5	0
Invoke and Scroll	CONTROL PUSHBUTTON 1 ON

INSTALLATION

Relay Settings	Programmed
Relay Name	VLN-H1-S1-D60

**SYSTEM SETUP**

**AC INPUTS**

CURRENT

CT F1: Phase CT Primary	150 A
CT F1: Phase CT Secondary	5 A
CT F1: Ground CT Primary	150 A
CT F1: Ground CT Secondary	5 A

VOLTAGE

VT F5: Phase VT Connection	Wye
VT F5: Phase VT Secondary	65.2 V
VT F5: Phase VT Ratio	1000.00 :1

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

VOLTAGE (continued from last page)

VT F5: Auxiliary VT Connection	Vag
VT F5: Auxiliary VT Secondary	113.0 V
VT F5: Auxiliary VT Ratio	577.00 :1

POWER SYSTEM

Nominal Frequency	50 Hz
Phase Rotation	ABC
Frequency And Phase Reference	SRC 1 (SRC 1)
Frequency Tracking Function	Enabled

SIGNAL SOURCES

SOURCE 1: Name	SRC 1
SOURCE 1: Phase CT	F1
SOURCE 1: Ground CT	F1
SOURCE 1: Phase VT	F5
SOURCE 1: Auxiliary VT	F5

BREAKERS

Breaker 1 Function	Enabled
Breaker 1 Push Button Control	Disabled
Breaker 1 Name	52H1
Breaker 1 Mode	3-Pole
Breaker 1 Open	OFF
Breaker 1 Close	OFF
Breaker 1 Breaker 1 Phase A/3-Pole	ST_52H1_CE On(H7c)
Breaker 1 Breaker 1 Phase B	OFF
Breaker 1 Breaker 1 Phase C	OFF
Breaker 1 Toperate	-----
Breaker 1 External Alarm	OFF
Breaker 1 Alarm Delay	0.000 s
Breaker 1 Manual Close Recall Time	0.000 s
Breaker 1 Out Of Service	OFF

**FLEXLOGIC**

FLEXLOGIC EQUATION EDITOR

FlexLogic Entry 1	LINE PICKUP OP
FlexLogic Entry 2	PH DIST Z1 OP
FlexLogic Entry 3	PH DIST Z2 OP
FlexLogic Entry 4	PH DIST Z3 OP
FlexLogic Entry 5	PH DIST Z4 OP
FlexLogic Entry 6	GND DIST Z1 OP
FlexLogic Entry 7	GND DIST Z2 OP
FlexLogic Entry 8	GND DIST Z3 OP
FlexLogic Entry 9	GND DIST Z4 OP
FlexLogic Entry 10	PHASE TOC1 OP
FlexLogic Entry 11	PHASE TOC2 OP
FlexLogic Entry 12	PHASE IOC1 OP
FlexLogic Entry 13	NEUTRAL TOC1 OP
FlexLogic Entry 14	NEUTRAL TOC2 OP
FlexLogic Entry 15	NEUTRAL IOC1 OP
FlexLogic Entry 16	TRIP TELEP On (VO22)
FlexLogic Entry 17	OR(16)
FlexLogic Entry 18	= Trip (VO1)
FlexLogic Entry 19	Trip On (VO1)
FlexLogic Entry 20	AR CLOSE BKR 1
FlexLogic Entry 21	PHASE TOC1 PKP
FlexLogic Entry 22	OR(3)
FlexLogic Entry 23	= Oscilografia (VO2)
FlexLogic Entry 24	PH DIST Z1 OP
FlexLogic Entry 25	GND DIST Z1 OP
FlexLogic Entry 26	GND DIST Z5 PKP
FlexLogic Entry 27	PH DIST Z5 PKP
FlexLogic Entry 28	OR(4)
FlexLogic Entry 29	= Partida 79 (VO4)
FlexLogic Entry 30	AR CLOSE BKR 1
FlexLogic Entry 31	CM_CIERRE On (VO11)
FlexLogic Entry 32	OR(2)
FlexLogic Entry 33	PHASE OV1 DPO
FlexLogic Entry 34	AND(2)
FlexLogic Entry 35	= CIERRE (VO5)

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 36	AR DISABLED
FlexLogic Entry 37	= ST_79_BLOCK (VO8)
FlexLogic Entry 38	AR ENABLED
FlexLogic Entry 39	= ST_79_NORM (VO9)
FlexLogic Entry 40	CM_AB_52H1 On (VI12)
FlexLogic Entry 41	TIMER 3
FlexLogic Entry 42	= CM_APERT (VO10)
FlexLogic Entry 43	CM_CE_52H1 On (VI13)
FlexLogic Entry 44	PHASE OV1 DPO
FlexLogic Entry 45	AND(2)
FlexLogic Entry 46	TIMER 4
FlexLogic Entry 47	= CM_CIERRE (VO11)
FlexLogic Entry 48	Trip On (VO1)
FlexLogic Entry 49	TIMER 5
FlexLogic Entry 50	= AL_TRIP (VO12)
FlexLogic Entry 51	TX1_ADD On (VO20)
FlexLogic Entry 52	TX2_TDD On (VO21)
FlexLogic Entry 53	OR(2)
FlexLogic Entry 54	TIMER 7
FlexLogic Entry 55	= AL_TELP_EDEN (VO13)
FlexLogic Entry 56	SRC1_VT_FUSE_FAIL_OP
FlexLogic Entry 57	= AL_LOP (VO14)
FlexLogic Entry 58	PHASE UV1 OP
FlexLogic Entry 59	AUX_OV_1_OP
FlexLogic Entry 60	OR(2)
FlexLogic Entry 61	= AL_27-59 (VO15)
FlexLogic Entry 62	ST_FI_TEL_RH On(P7c)
FlexLogic Entry 63	= AL_FI_TEL_RH (VO16)
FlexLogic Entry 64	RX2_ADD On (VO19)
FlexLogic Entry 65	TIMER 6
FlexLogic Entry 66	= AL_TELP_RH (VO17)
FlexLogic Entry 67	ST_ADD_RH On(P8c)
FlexLogic Entry 68	= RX2_ADD (VO19)
FlexLogic Entry 69	GND_DIST_Z5_PKP
FlexLogic Entry 70	PH_DIST_Z5_PKP
FlexLogic Entry 71	OR(2)
FlexLogic Entry 72	= TX1_ADD (VO20)
FlexLogic Entry 73	RX2_ADD On (VO19)
FlexLogic Entry 74	TX1_ADD On (VO20)
FlexLogic Entry 75	AND(2)
FlexLogic Entry 76	Trip On (VO1)
FlexLogic Entry 77	OR(2)
FlexLogic Entry 78	= TX2_TDD (VO21)
FlexLogic Entry 79	RX2_ADD On (VO19)
FlexLogic Entry 80	TX1_ADD On (VO20)
FlexLogic Entry 81	AND(2)
FlexLogic Entry 82	= TRIP_TELEP (VO22)
FlexLogic Entry 83	END

FLEXLOGIC TIMERS

Timer 3: Type	second
Timer 3: Pickup Delay	0
Timer 3: Dropout Delay	2
Timer 4: Type	second
Timer 4: Pickup Delay	0
Timer 4: Dropout Delay	2
Timer 5: Type	second
Timer 5: Pickup Delay	0
Timer 5: Dropout Delay	1
Timer 6: Type	second
Timer 6: Pickup Delay	0
Timer 6: Dropout Delay	1
Timer 7: Type	second
Timer 7: Pickup Delay	0
Timer 7: Dropout Delay	1

FLEXELEMENTS

FLEXELEMENTS 1: Function	Enabled
FLEXELEMENTS 1: Name	R_B_P
FLEXELEMENTS 1: InputPlus	SRC1 P

QUICK CONNECT

QUICK CONNECT DEVICE

DEVICE DEFINITION

ORDER CODE: D60-G00-HCH-F8F-H6B-P6B

VERSION: 5.2X

DESCRIPTION: (NONE)

INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502

FLEXELEMENTS (continued from last page)

FLEXELEMENTS 1: InputMinus	OFF
FLEXELEMENTS 1: InputMode	SIGNED
FLEXELEMENTS 1: Compare Mode	LEVEL
FLEXELEMENTS 1: Direction Type	OVER
FLEXELEMENTS 1: Pickup	0.005 pu
FLEXELEMENTS 1: Hysteresis	3.0 %
FLEXELEMENTS 1: DeltaTUnits	Milliseconds
FLEXELEMENTS 1: DeltaT	20
FLEXELEMENTS 1: Pickup Delay	0.100 s
FLEXELEMENTS 1: Reset Delay	0.000 s
FLEXELEMENTS 1: Block	OFF
FLEXELEMENTS 1: Target	Disabled
FLEXELEMENTS 1: Events	Disabled
FLEXELEMENTS 2: Function	Enabled
FLEXELEMENTS 2: Name	I_B_P
FLEXELEMENTS 2: InputPlus	SR $\bar{C}$ 1 P
FLEXELEMENTS 2: InputMinus	OFF
FLEXELEMENTS 2: InputMode	SIGNED
FLEXELEMENTS 2: Compare Mode	LEVEL
FLEXELEMENTS 2: Direction Type	UNDER
FLEXELEMENTS 2: Pickup	-0.005 pu
FLEXELEMENTS 2: Hysteresis	3.0 %
FLEXELEMENTS 2: DeltaTUnits	Milliseconds
FLEXELEMENTS 2: DeltaT	20
FLEXELEMENTS 2: Pickup Delay	0.100 s
FLEXELEMENTS 2: Reset Delay	0.000 s
FLEXELEMENTS 2: Block	OFF
FLEXELEMENTS 2: Target	Disabled
FLEXELEMENTS 2: Events	Disabled
FLEXELEMENTS 3: Function	Enabled
FLEXELEMENTS 3: Name	R_B_Q
FLEXELEMENTS 3: InputPlus	SR $\bar{C}$ 1 Q
FLEXELEMENTS 3: InputMinus	OFF
FLEXELEMENTS 3: InputMode	SIGNED
FLEXELEMENTS 3: Compare Mode	LEVEL
FLEXELEMENTS 3: Direction Type	OVER
FLEXELEMENTS 3: Pickup	0.005 pu
FLEXELEMENTS 3: Hysteresis	3.0 %
FLEXELEMENTS 3: DeltaTUnits	Milliseconds
FLEXELEMENTS 3: DeltaT	20
FLEXELEMENTS 3: Pickup Delay	0.100 s
FLEXELEMENTS 3: Reset Delay	0.000 s
FLEXELEMENTS 3: Block	OFF
FLEXELEMENTS 3: Target	Disabled
FLEXELEMENTS 3: Events	Disabled
FLEXELEMENTS 4: Function	Enabled
FLEXELEMENTS 4: Name	I_B_Q
FLEXELEMENTS 4: InputPlus	SR $\bar{C}$ 1 Q
FLEXELEMENTS 4: InputMinus	OFF
FLEXELEMENTS 4: InputMode	SIGNED
FLEXELEMENTS 4: Compare Mode	LEVEL
FLEXELEMENTS 4: Direction Type	UNDER
FLEXELEMENTS 4: Pickup	-0.005 pu
FLEXELEMENTS 4: Hysteresis	3.0 %
FLEXELEMENTS 4: DeltaTUnits	Milliseconds
FLEXELEMENTS 4: DeltaT	20
FLEXELEMENTS 4: Pickup Delay	0.100 s
FLEXELEMENTS 4: Reset Delay	0.000 s
FLEXELEMENTS 4: Block	OFF
FLEXELEMENTS 4: Target	Disabled
FLEXELEMENTS 4: Events	Disabled

NON-VOLATILE LATCHES

LATCH 1: Function	Enabled
LATCH 1: Type	Set Dominant
LATCH 1: Set	CM_BLQ_79 On (VI14)
LATCH 1: Reset	CM_NORM_79 On (VI15)
LATCH 1: Target	Self-reset
LATCH 1: Events	Enabled

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

GROUPED ELEMENTS

GROUP 1

LINE PICKUP [GROUP 1]

Function	Enabled
Signal Source	SRC 1 (SRC 1)
Phase IOC Line Pickup	2.400 pu
UV Pickup	0.700 pu
Line End Open Pickup Delay	0.150 s
Line End Open Reset Delay	0.100 s
OV Pickup Delay	0.050 s
Autoreclose Coordination Bypass	Enabled
Autoreclose Coordination Pickup Delay	0.045 s
Autoreclose Coordination Reset Delay	0.005 s
Terminal Open	OFF
AR Accelerate	OFF
Distance Trip	Disabled
Block	OFF
Target	Latched
Events	Enabled

DISTANCE

DISTANCE [GROUP 1]

Source	SRC 1 (SRC 1)
Memory Duration	7 cycles
Force Self-Polar	OFF
Force Mem-Polar	OFF

PHASE DISTANCE [GROUP 1]

PHASE DISTANCE Z1: Function	Enabled
PHASE DISTANCE Z1: Direction	Forward
PHASE DISTANCE Z1: Shape	Mho
PHASE DISTANCE Z1: Xfmr Vol Connection	None
PHASE DISTANCE Z1: Xfmr Curr Connection	None
PHASE DISTANCE Z1: Reach	0.21 ohms
PHASE DISTANCE Z1: RCA	57 deg
PHASE DISTANCE Z1: Rev Reach	0.50 ohms
PHASE DISTANCE Z1: Rev Reach RCA	85 deg
PHASE DISTANCE Z1: Comp Limit	90 deg
PHASE DISTANCE Z1: DIR RCA	57 deg
PHASE DISTANCE Z1: DIR Comp Limit	90 deg
PHASE DISTANCE Z1: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z1: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z1: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z1: Supervision	0.200 pu
PHASE DISTANCE Z1: Volt Level	0.000 pu
PHASE DISTANCE Z1: Delay	0.000 s
PHASE DISTANCE Z1: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z1: Target	Latched
PHASE DISTANCE Z1: Events	Enabled
PHASE DISTANCE Z2: Function	Enabled
PHASE DISTANCE Z2: Direction	Forward
PHASE DISTANCE Z2: Shape	Mho
PHASE DISTANCE Z2: Xfmr Vol Connection	None
PHASE DISTANCE Z2: Xfmr Curr Connection	None
PHASE DISTANCE Z2: Reach	1.90 ohms
PHASE DISTANCE Z2: RCA	60 deg
PHASE DISTANCE Z2: Rev Reach	2.00 ohms
PHASE DISTANCE Z2: Rev Reach RCA	85 deg
PHASE DISTANCE Z2: Comp Limit	90 deg
PHASE DISTANCE Z2: DIR RCA	57 deg
PHASE DISTANCE Z2: DIR Comp Limit	90 deg
PHASE DISTANCE Z2: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z2: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z2: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z2: Supervision	0.200 pu
PHASE DISTANCE Z2: Volt Level	0.000 pu
PHASE DISTANCE Z2: Delay	0.350 s
PHASE DISTANCE Z2: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z2: Target	Latched

QUICK CONNECT

QUICK CONNECT DEVICE

DEVICE DEFINITION

ORDER CODE: D60-G00-HCH-F8F-H6B-P6B

VERSION: 5.2X

DESCRIPTION: (NONE)

INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502

PHASE DISTANCE [GROUP 1] (continued from last page)

PHASE DISTANCE Z2: Events	Enabled
PHASE DISTANCE Z3: Function	Enabled
PHASE DISTANCE Z3: Direction	Forward
PHASE DISTANCE Z3: Shape	Mho
PHASE DISTANCE Z3: Xfmr Vol Connection	None
PHASE DISTANCE Z3: Xfmr Curr Connection	None
PHASE DISTANCE Z3: Reach	5.49 ohms
PHASE DISTANCE Z3: RCA	84 deg
PHASE DISTANCE Z3: Rev Reach	2.00 ohms
PHASE DISTANCE Z3: Rev Reach RCA	85 deg
PHASE DISTANCE Z3: Comp Limit	90 deg
PHASE DISTANCE Z3: DIR RCA	84 deg
PHASE DISTANCE Z3: DIR Comp Limit	90 deg
PHASE DISTANCE Z3: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z3: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z3: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z3: Supervision	0.200 pu
PHASE DISTANCE Z3: Volt Level	0.000 pu
PHASE DISTANCE Z3: Delay	2.500 s
PHASE DISTANCE Z3: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z3: Target	Latched
PHASE DISTANCE Z3: Events	Enabled
PHASE DISTANCE Z4: Function	Enabled
PHASE DISTANCE Z4: Direction	Reverse
PHASE DISTANCE Z4: Shape	Mho
PHASE DISTANCE Z4: Xfmr Vol Connection	None
PHASE DISTANCE Z4: Xfmr Curr Connection	None
PHASE DISTANCE Z4: Reach	0.27 ohms
PHASE DISTANCE Z4: RCA	39 deg
PHASE DISTANCE Z4: Rev Reach	2.00 ohms
PHASE DISTANCE Z4: Rev Reach RCA	85 deg
PHASE DISTANCE Z4: Comp Limit	90 deg
PHASE DISTANCE Z4: DIR RCA	39 deg
PHASE DISTANCE Z4: DIR Comp Limit	90 deg
PHASE DISTANCE Z4: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z4: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z4: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z4: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z4: Supervision	0.200 pu
PHASE DISTANCE Z4: Volt Level	0.000 pu
PHASE DISTANCE Z4: Delay	0.400 s
PHASE DISTANCE Z4: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z4: Target	Latched
PHASE DISTANCE Z4: Events	Enabled
PHASE DISTANCE Z5: Function	Enabled
PHASE DISTANCE Z5: Direction	Forward
PHASE DISTANCE Z5: Shape	Mho
PHASE DISTANCE Z5: Xfmr Vol Connection	None
PHASE DISTANCE Z5: Xfmr Curr Connection	None
PHASE DISTANCE Z5: Reach	0.50 ohms
PHASE DISTANCE Z5: RCA	57 deg
PHASE DISTANCE Z5: Rev Reach	2.00 ohms
PHASE DISTANCE Z5: Rev Reach RCA	85 deg
PHASE DISTANCE Z5: Comp Limit	90 deg
PHASE DISTANCE Z5: DIR RCA	57 deg
PHASE DISTANCE Z5: DIR Comp Limit	90 deg
PHASE DISTANCE Z5: Quad Right Blinder	10.00 ohms
PHASE DISTANCE Z5: Quad Right Blinder RCA	85 deg
PHASE DISTANCE Z5: Quad Left Blinder	10.00 ohms
PHASE DISTANCE Z5: Quad Left Blinder RCA	85 deg
PHASE DISTANCE Z5: Supervision	0.200 pu
PHASE DISTANCE Z5: Volt Level	0.000 pu
PHASE DISTANCE Z5: Delay	0.400 s
PHASE DISTANCE Z5: Block	SRC1 VT FUSE FAIL OP
PHASE DISTANCE Z5: Target	Latched
PHASE DISTANCE Z5: Events	Enabled

GROUND DISTANCE [GROUP 1]

GROUND DISTANCE Z1: Function	Enabled
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QUICK CONNECT

QUICK CONNECT DEVICE

DEVICE DEFINITION

ORDER CODE: D60-G00-HCH-F8F-H6B-P6B

VERSION: 5.2X

DESCRIPTION: (NONE)

INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502

GROUND DISTANCE [GROUP 1] (continued from last page)

GROUND DISTANCE Z1: Direction	Forward
GROUND DISTANCE Z1: Shape	Quad
GROUND DISTANCE Z1: Z0/Z1 Mag	2.16
GROUND DISTANCE Z1: Z0/Z1 Ang	25 deg
GROUND DISTANCE Z1: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z1: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z1: Reach	0.18 ohms
GROUND DISTANCE Z1: RCA	85 deg
GROUND DISTANCE Z1: Rev Reach	2.00 ohms
GROUND DISTANCE Z1: Rev Reach RCA	85 deg
GROUND DISTANCE Z1: POL Current	Zero-seq
GROUND DISTANCE Z1: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z1: Comp Limit	90 deg
GROUND DISTANCE Z1: DIR RCA	85 deg
GROUND DISTANCE Z1: DIR Comp Limit	90 deg
GROUND DISTANCE Z1: Quad Right Blinder	0.57 ohms
GROUND DISTANCE Z1: Quad Right Blinder RCA	60 deg
GROUND DISTANCE Z1: Quad Left Blinder	2.00 ohms
GROUND DISTANCE Z1: Quad Left Blinder RCA	60 deg
GROUND DISTANCE Z1: Supervision	0.200 pu
GROUND DISTANCE Z1: Volt Level	0.000 pu
GROUND DISTANCE Z1: Delay	0.000 s
GROUND DISTANCE Z1: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z1: Target	Latched
GROUND DISTANCE Z1: Events	Enabled
GROUND DISTANCE Z2: Function	Enabled
GROUND DISTANCE Z2: Direction	Forward
GROUND DISTANCE Z2: Shape	Quad
GROUND DISTANCE Z2: Z0/Z1 Mag	2.16
GROUND DISTANCE Z2: Z0/Z1 Ang	12 deg
GROUND DISTANCE Z2: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z2: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z2: Reach	1.80 ohms
GROUND DISTANCE Z2: RCA	85 deg
GROUND DISTANCE Z2: Rev Reach	2.00 ohms
GROUND DISTANCE Z2: Rev Reach RCA	85 deg
GROUND DISTANCE Z2: POL Current	Zero-seq
GROUND DISTANCE Z2: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z2: Comp Limit	90 deg
GROUND DISTANCE Z2: DIR RCA	85 deg
GROUND DISTANCE Z2: DIR Comp Limit	90 deg
GROUND DISTANCE Z2: Quad Right Blinder	3.00 ohms
GROUND DISTANCE Z2: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z2: Quad Left Blinder	3.00 ohms
GROUND DISTANCE Z2: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z2: Supervision	0.200 pu
GROUND DISTANCE Z2: Volt Level	0.000 pu
GROUND DISTANCE Z2: Delay	0.350 s
GROUND DISTANCE Z2: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z2: Target	Latched
GROUND DISTANCE Z2: Events	Enabled
GROUND DISTANCE Z3: Function	Enabled
GROUND DISTANCE Z3: Direction	Forward
GROUND DISTANCE Z3: Shape	Quad
GROUND DISTANCE Z3: Z0/Z1 Mag	2.16
GROUND DISTANCE Z3: Z0/Z1 Ang	12 deg
GROUND DISTANCE Z3: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z3: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z3: Reach	5.46 ohms
GROUND DISTANCE Z3: RCA	85 deg
GROUND DISTANCE Z3: Rev Reach	2.00 ohms
GROUND DISTANCE Z3: Rev Reach RCA	85 deg
GROUND DISTANCE Z3: POL Current	Zero-seq
GROUND DISTANCE Z3: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z3: Comp Limit	90 deg
GROUND DISTANCE Z3: DIR RCA	85 deg
GROUND DISTANCE Z3: DIR Comp Limit	90 deg
GROUND DISTANCE Z3: Quad Right Blinder	5.46 ohms
GROUND DISTANCE Z3: Quad Right Blinder RCA	85 deg
GROUND DISTANCE Z3: Quad Left Blinder	5.46 ohms

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

GROUND DISTANCE [GROUP 1] (continued from last page)

GROUND DISTANCE Z3: Quad Left Blinder RCA	85 deg
GROUND DISTANCE Z3: Supervision	0.200 pu
GROUND DISTANCE Z3: Volt Level	0.000 pu
GROUND DISTANCE Z3: Delay	2.500 s
GROUND DISTANCE Z3: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z3: Target	Latched
GROUND DISTANCE Z3: Events	Enabled
GROUND DISTANCE Z4: Function	Enabled
GROUND DISTANCE Z4: Direction	Reverse
GROUND DISTANCE Z4: Shape	Quad
GROUND DISTANCE Z4: Z0/Z1 Mag	2.16
GROUND DISTANCE Z4: Z0/Z1 Ang	12 deg
GROUND DISTANCE Z4: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z4: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z4: Reach	0.17 ohms
GROUND DISTANCE Z4: RCA	85 deg
GROUND DISTANCE Z4: Rev Reach	2.00 ohms
GROUND DISTANCE Z4: Rev Reach RCA	85 deg
GROUND DISTANCE Z4: POL Current	Zero-seq
GROUND DISTANCE Z4: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z4: Comp Limit	90 deg
GROUND DISTANCE Z4: DIR RCA	85 deg
GROUND DISTANCE Z4: DIR Comp Limit	90 deg
GROUND DISTANCE Z4: Quad Right Blinder	1.11 ohms
GROUND DISTANCE Z4: Quad Right Blinder RCA	60 deg
GROUND DISTANCE Z4: Quad Left Blinder	1.11 ohms
GROUND DISTANCE Z4: Quad Left Blinder RCA	60 deg
GROUND DISTANCE Z4: Supervision	0.200 pu
GROUND DISTANCE Z4: Volt Level	0.000 pu
GROUND DISTANCE Z4: Delay	0.400 s
GROUND DISTANCE Z4: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z4: Target	Latched
GROUND DISTANCE Z4: Events	Enabled
GROUND DISTANCE Z5: Function	Enabled
GROUND DISTANCE Z5: Direction	Forward
GROUND DISTANCE Z5: Shape	Quad
GROUND DISTANCE Z5: Z0/Z1 Mag	2.16
GROUND DISTANCE Z5: Z0/Z1 Ang	12 deg
GROUND DISTANCE Z5: Z0M/Z1 Mag	0.00
GROUND DISTANCE Z5: Z0M/Z1 Ang	0 deg
GROUND DISTANCE Z5: Reach	0.42 ohms
GROUND DISTANCE Z5: RCA	85 deg
GROUND DISTANCE Z5: Rev Reach	2.00 ohms
GROUND DISTANCE Z5: Rev Reach RCA	85 deg
GROUND DISTANCE Z5: POL Current	Zero-seq
GROUND DISTANCE Z5: Non-Homogen Ang	0.0 deg
GROUND DISTANCE Z5: Comp Limit	90 deg
GROUND DISTANCE Z5: DIR RCA	85 deg
GROUND DISTANCE Z5: DIR Comp Limit	90 deg
GROUND DISTANCE Z5: Quad Right Blinder	0.72 ohms
GROUND DISTANCE Z5: Quad Right Blinder RCA	60 deg
GROUND DISTANCE Z5: Quad Left Blinder	0.72 ohms
GROUND DISTANCE Z5: Quad Left Blinder RCA	60 deg
GROUND DISTANCE Z5: Supervision	0.200 pu
GROUND DISTANCE Z5: Volt Level	0.000 pu
GROUND DISTANCE Z5: Delay	0.400 s
GROUND DISTANCE Z5: Block	SRC1 VT FUSE FAIL OP
GROUND DISTANCE Z5: Target	Latched
GROUND DISTANCE Z5: Events	Enabled

**PHASE CURRENT**

PHASE TOC [GROUP 1]

PHASE TOC1: Function	Enabled
PHASE TOC1: Signal Source	SRC 1 (SRC 1)
PHASE TOC1: Input	Phasor
PHASE TOC1: Pickup	1.200 pu
PHASE TOC1: Curve	IEC Curve B
PHASE TOC1: TD Multiplier	0.43
PHASE TOC1: Reset	Instantaneous
PHASE TOC1: Voltage Restraint	Disabled

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

PHASE TOC [GROUP 1] (continued from last page)

PHASE TOC1: Block A	PH DIR1 BLK A
PHASE TOC1: Block B	PH DIR1 BLK B
PHASE TOC1: Block C	PH DIR1 BLK C
PHASE TOC1: Target	Latched
PHASE TOC1: Events	Enabled
PHASE TOC2: Function	Enabled
PHASE TOC2: Signal Source	SRC 1 (SRC 1)
PHASE TOC2: Input	Phasor
PHASE TOC2: Pickup	0.250 pu
PHASE TOC2: Curve	IEC Curve A
PHASE TOC2: TD Multiplier	0.08
PHASE TOC2: Reset	Instantaneous
PHASE TOC2: Voltage Restraint	Disabled
PHASE TOC2: Block A	PH DIR2 BLK A
PHASE TOC2: Block B	PH DIR2 BLK B
PHASE TOC2: Block C	PH DIR2 BLK C
PHASE TOC2: Target	Latched
PHASE TOC2: Events	Enabled

PHASE IOC [GROUP 1]

PHASE IOC1: Function	Enabled
PHASE IOC1: Source	SRC 1 (SRC 1)
PHASE IOC1: Pickup	12.000 pu
PHASE IOC1: Delay	0.30 s
PHASE IOC1: Reset Delay	0.00 s
PHASE IOC1: Block A	PH DIR1 BLK A
PHASE IOC1: Block B	PH DIR1 BLK B
PHASE IOC1: Block C	PH DIR1 BLK C
PHASE IOC1: Target	Latched
PHASE IOC1: Events	Enabled

PHASE DIRECTIONAL [GROUP 1]

PHASE DIR1: Function	Enabled
PHASE DIR1: Source	SRC 1 (SRC 1)
PHASE DIR1: Block	SRC1 VT FUSE FAIL OP
PHASE DIR1: ECA	30 deg
PHASE DIR1: Pol V Threshold	0.700 pu
PHASE DIR1: Block when V Mem Exp	No
PHASE DIR1: Target	Self-reset
PHASE DIR1: Events	Disabled
PHASE DIR2: Function	Enabled
PHASE DIR2: Source	SRC 1 (SRC 1)
PHASE DIR2: Block	SRC1 VT FUSE FAIL OP
PHASE DIR2: ECA	210 deg
PHASE DIR2: Pol V Threshold	0.700 pu
PHASE DIR2: Block when V Mem Exp	No
PHASE DIR2: Target	Self-reset
PHASE DIR2: Events	Enabled

**NEUTRAL CURRENT**

NEUTRAL TOC [GROUP 1]

NEUTRAL TOC1: Function	Enabled
NEUTRAL TOC1: Source	SRC 1 (SRC 1)
NEUTRAL TOC1: Input	Phasor
NEUTRAL TOC1: Pickup	0.120 pu
NEUTRAL TOC1: Curve	IAC Very Inv
NEUTRAL TOC1: TD Multiplier	4.60
NEUTRAL TOC1: Reset	Instantaneous
NEUTRAL TOC1: Block	NTRL DIR OC1 REV
NEUTRAL TOC1: Target	Latched
NEUTRAL TOC1: Events	Enabled
NEUTRAL TOC2: Function	Enabled
NEUTRAL TOC2: Source	SRC 1 (SRC 1)
NEUTRAL TOC2: Input	Phasor
NEUTRAL TOC2: Pickup	0.100 pu
NEUTRAL TOC2: Curve	IEC Curve A
NEUTRAL TOC2: TD Multiplier	0.17
NEUTRAL TOC2: Reset	Instantaneous
NEUTRAL TOC2: Block	NTRL DIR OC1 FWD
NEUTRAL TOC2: Target	Latched

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

NEUTRAL TOC [GROUP 1] (continued from last page)

NEUTRAL TOC2: Events Enabled

NEUTRAL IOC [GROUP 1]

NEUTRAL IOC1: Function Enabled  
 NEUTRAL IOC1: Source SRC 1 (SRC 1)  
 NEUTRAL IOC1: Pickup 15.000 pu  
 NEUTRAL IOC1: Delay 0.25 s  
 NEUTRAL IOC1: Reset Delay 0.00 s  
 NEUTRAL IOC1: Block NTRL DIR OC1 REV  
 NEUTRAL IOC1: Target Latched  
 NEUTRAL IOC1: Events Enabled

NEUTRAL DIRECTIONAL OC [GROUP 1]

NEUTRAL DIR OC1: Function Enabled  
 NEUTRAL DIR OC1: Source SRC 1 (SRC 1)  
 NEUTRAL DIR OC1: Polarizing Voltage  
 NEUTRAL DIR OC1: Polarizing Volt Calculated V0  
 NEUTRAL DIR OC1: Op Current Calculated 3I0  
 NEUTRAL DIR OC1: POS SEQ Restraint 0.063  
 NEUTRAL DIR OC1: Offset 0.00 ohms  
 NEUTRAL DIR OC1: Forward ECA 57 ° Lag  
 NEUTRAL DIR OC1: Forward Limit Angle 90 deg  
 NEUTRAL DIR OC1: Forward Pickup 0.050 pu  
 NEUTRAL DIR OC1: Reverse Limit Angle 90 deg  
 NEUTRAL DIR OC1: Reverse Pickup 0.050 pu  
 NEUTRAL DIR OC1: Block SRC1 VT FUSE FAIL OP  
 NEUTRAL DIR OC1: Target Disabled  
 NEUTRAL DIR OC1: Events Enabled

VOLTAGE ELEMENTS

PHASE UV [GROUP 1]

PHASE UV1: Function Enabled  
 PHASE UV1: Signal Source SRC 1 (SRC 1)  
 PHASE UV1: Mode Phase to Ground  
 PHASE UV1: Pickup 0.950 pu  
 PHASE UV1: Curve Definite Time  
 PHASE UV1: Delay 0.00 s  
 PHASE UV1: Minimum Voltage 0.000 pu  
 PHASE UV1: Block OFF  
 PHASE UV1: Target Self-reset  
 PHASE UV1: Events Enabled

PHASE OV [GROUP 1]

PHASE OV1: Function Enabled  
 PHASE OV1: Source SRC 1 (SRC 1)  
 PHASE OV1: Pickup 0.100 pu  
 PHASE OV1: Delay 0.00 s  
 PHASE OV1: Reset Delay 1.00 s  
 PHASE OV1: Block OFF  
 PHASE OV1: Target Disabled  
 PHASE OV1: Events Enabled

AUXILIARY OV [GROUP 1]

AUXILIARY OV 1: Function Enabled  
 AUXILIARY OV 1: Source SRC 1 (SRC 1)  
 AUXILIARY OV 1: Pickup 1.050 pu  
 AUXILIARY OV 1: Pickup Delay 1.00 s  
 AUXILIARY OV 1: Reset Delay 1.00 s  
 AUXILIARY OV 1: Block OFF  
 AUXILIARY OV 1: Target Self-reset  
 AUXILIARY OV 1: Events Enabled

CONTROL ELEMENTS

MONITORING ELEMENTS

VT FUSE FAILURE

VT FUSE FAILURE 1: Function Enabled

AUTORECLOSE 1P

Function Enabled  
 Mode 3 Pole - B

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

AUTORECLOSE 1P (continued from last page)

Max Number Of Shots	1
Block BKR1	OFF
Close Time BKR1	0.10 s
BKR Man Close	OFF
Blk Time Upon Man Cls	10.00 s
1-P Init	OFF
3-P Init	OFF
3-P TD Init	Partida 79 On (VO4)
Multi P Fault	OFF
BKR 1 Pole Open	OFF
BKR 3 Pole Open	ST_52H1_AB On(H7a)
3-P Dead Time 1	10.00 s
3-P Dead Time 2	1.50 s
3-P Dead Time 3	2.00 s
3-P Dead Time 4	4.00 s
Extend Dead T1	OFF
Dead T1 Extension	0.50 s
Reset	RESET OP
Reset Time	60.00 s
BKR Closed	ST_52H1_CE On(H7c)
Block	LATCH I ON
Pause	OFF
Inc Seq Time	30.00 s
Block BKR2	OFF
Close Time BKR2	0.10 s
Transfer 1 to 2	No
Transfer 2 to 1	No
BKR1 Fail Option	Lockout
BKR2 Fail Option	Lockout
1-P Dead Time	10.00 s
BKR Sequence	1
Transfer Time	4.00 s
BUS FLT Init	OFF
Event	Enabled

**INPUTS/OUTPUTS**

CONTACT INPUTS

[H7a] Contact Input 7a ID	ST_52H1_AB
[H7a] Contact Input 7a Debounce Time	2.0 ms
[H7a] Contact Input 7a Events	Enabled
[H7c] Contact Input 7c ID	ST_52H1_CE
[H7c] Contact Input 7c Debounce Time	2.0 ms
[H7c] Contact Input 7c Events	Enabled
[H8a] Contact Input 8a ID	Cont In 3
[H8a] Contact Input 8a Debounce Time	2.0 ms
[H8a] Contact Input 8a Events	Disabled
[H8c] Contact Input 8c ID	Cont In 4
[H8c] Contact Input 8c Debounce Time	2.0 ms
[H8c] Contact Input 8c Events	Enabled
[P7a] Contact Input 7a ID	ST_52H1_RH
[P7a] Contact Input 7a Debounce Time	2.0 ms
[P7a] Contact Input 7a Events	Enabled
[P7c] Contact Input 7c ID	ST_FI_TEL_RH
[P7c] Contact Input 7c Debounce Time	2.0 ms
[P7c] Contact Input 7c Events	Enabled
[P8a] Contact Input 8a ID	ST_TDD_RH
[P8a] Contact Input 8a Debounce Time	2.0 ms
[P8a] Contact Input 8a Events	Enabled
[P8c] Contact Input 8c ID	ST_ADD_RH
[P8c] Contact Input 8c Debounce Time	2.0 ms
[P8c] Contact Input 8c Events	Enabled

CONTACT INPUT THRESHOLDS

ST_52H1_AB ST_52H1_CE Cont In 3 Cont In 4(H7a H7c H8a H8c)	84 Vdc
ST_52H1_RH ST_FI_TEL_RH ST_TDD_RH ST_ADD_RH(P7a P7c P8a P8c)	33 Vdc

**VIRTUAL INPUTS**

**VIRTUAL INPUTS**

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

VIRTUAL INPUTS (continued from last page)

Virtual Input 12 Function	Enabled
Virtual Input 12 ID	CM_AB_52H1
Virtual Input 12 Type	Self-Reset
Virtual Input 12 Events	Disabled
Virtual Input 13 Function	Enabled
Virtual Input 13 ID	CM_CE_52H1
Virtual Input 13 Type	Self-Reset
Virtual Input 13 Events	Disabled
Virtual Input 14 Function	Enabled
Virtual Input 14 ID	CM_BLQ_79
Virtual Input 14 Type	Self-Reset
Virtual Input 14 Events	Disabled
Virtual Input 15 Function	Enabled
Virtual Input 15 ID	CM_NORM_79
Virtual Input 15 Type	Self-Reset
Virtual Input 15 Events	Disabled

CONTACT OUTPUTS

[H3] Contact Output 3 ID	CM_ABR_H1
[H3] Contact Output 3 Operate	CM_APERT On (VO10)
[H3] Contact Output 3 Seal-In	OFF
[H3] Contact Output 3 Events	Enabled
[H4] Contact Output 4 ID	TRIP
[H4] Contact Output 4 Operate	Trip On (VO1)
[H4] Contact Output 4 Seal-In	OFF
[H4] Contact Output 4 Events	Enabled
[H5] Contact Output 5 ID	CM_CERR_H1
[H5] Contact Output 5 Operate	CIERRE On (VO5)
[H5] Contact Output 5 Seal-In	OFF
[H5] Contact Output 5 Events	Enabled
[P3] Contact Output 9 ID	TRIP_ADD_EDE
[P3] Contact Output 9 Operate	TX1_ADD On (VO20)
[P3] Contact Output 9 Seal-In	OFF
[P3] Contact Output 9 Events	Enabled
[P4] Contact Output 10 ID	TRIP_TDD_EDE
[P4] Contact Output 10 Operate	TX2_TDD On (VO21)
[P4] Contact Output 10 Seal-In	OFF
[P4] Contact Output 10 Events	Enabled

VIRTUAL OUTPUTS

Virtual Output 1 ID	Trip
Virtual Output 1 Events	Enabled
Virtual Output 2 ID	Oscilografia
Virtual Output 2 Events	Enabled
Virtual Output 4 ID	Partida 79
Virtual Output 4 Events	Enabled
Virtual Output 5 ID	CIERRE
Virtual Output 5 Events	Enabled
Virtual Output 8 ID	ST_79_BLOCK
Virtual Output 8 Events	Disabled
Virtual Output 9 ID	ST_79_NORM
Virtual Output 9 Events	Disabled
Virtual Output 10 ID	CM_APERT
Virtual Output 10 Events	Disabled
Virtual Output 11 ID	CM_CIERRE
Virtual Output 11 Events	Disabled
Virtual Output 12 ID	AL_TRIP
Virtual Output 12 Events	Enabled
Virtual Output 13 ID	AL_TELP_EDEN
Virtual Output 13 Events	Enabled
Virtual Output 14 ID	AL_LOP
Virtual Output 14 Events	Enabled
Virtual Output 15 ID	AL_27-59
Virtual Output 15 Events	Enabled
Virtual Output 16 ID	AL_FI_TEL_RH
Virtual Output 16 Events	Enabled
Virtual Output 17 ID	AL_TELP_RH
Virtual Output 17 Events	Enabled
Virtual Output 19 ID	RX2_ADD
Virtual Output 19 Events	Enabled

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: D60-G00-HCH-F8F-H6B-P6B**

**VERSION: 5.2X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.51 | ADDR:5 | PORT: 502**

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VIRTUAL OUTPUTS (continued from last page)

Virtual Output 20 ID	TX1 ADD
Virtual Output 20 Events	Enabled
Virtual Output 21 ID	TX2 TDD
Virtual Output 21 Events	Enabled
Virtual Output 22 ID	TRIP TELEP
Virtual Output 22 Events	Enabled

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

**PRODUCT SETUP**

SECURITY

Command Password 0  
 Setting Password 0

DISPLAY PROPERTIES

Flash Message Time 1.0 s  
 Default Message Timeout 300 s  
 Default Message Intensity (VFD Only) 25 %  
 Screen Saver Feature (LCD Only) Disabled  
 Screen Saver Wait Time (LCD Only) 30 min  
 Current Cutoff Level 0.020 pu  
 Voltage Cutoff Level 0.1 V

**COMMUNICATIONS**

SERIAL PORTS

RS485 Com2 Baud Rate 19200  
 RS485 Com2 Parity None  
 RS485 Com2 Response Min Time 0 ms

NETWORK

IP Address 192. 0. 12. 50  
 IP Subnet Mask 255.255.255. 0  
 Gateway IP Address 192. 0. 12.254  
 Ethernet Operation Mode Half-Duplex  
 OSI Network Address (NSAP) 00

MODBUS PROTOCOL

Modbus Slave Address 4  
 Modbus TCP Port Number 502

DNP

DNP Port NETWORK  
 DNP Address 50  
 DNP Client Address 1 192. 0. 12. 60  
 DNP Client Address 2 0. 0. 0. 0  
 DNP Client Address 3 0. 0. 0. 0  
 DNP Client Address 4 0. 0. 0. 0  
 DNP Client Address 5 0. 0. 0. 0  
 DNP TCP/UDP Port Number 20000  
 DNP Unsol Resp Function Enabled  
 DNP Unsol Resp Timeout 5 s  
 DNP Unsol Resp Max Retries 10  
 DNP Unsol Resp Dest Addr 1000  
 DNP User Map Function Disabled  
 Number of Sources In Analog List 2  
 DNP Current Scale Factor 1  
 DNP Voltage Scale Factor 10  
 DNP Power Scale Factor 10000  
 DNP Energy Scale Factor 1  
 DNP Other Scale Factor 0.01  
 DNP Current Default Deadband 2  
 DNP Voltage Default Deadband 10  
 DNP Power Default Deadband 1  
 DNP Energy Default Deadband 30000  
 DNP Other Default Deadband 10  
 DNP Time Sync IIN Period 1440 min  
 DNP Message Fragment Size 240

DNP BINARY INPUTS

DNP Binary Input Block 1 Virtual Outs 33-48  
 DNP Binary Input Block 2 Virtual Outs 49-64  
 DNP Binary Input Block 3 Contact Ins 1-16  
 DNP Binary Input Block 4 Not Used  
 DNP Binary Input Block 5 Not Used  
 DNP Binary Input Block 6 Not Used  
 DNP Binary Input Block 7 Not Used  
 DNP Binary Input Block 8 Not Used  
 DNP Binary Input Block 9 Not Used  
 DNP Binary Input Block 10 Not Used  
 DNP Binary Input Block 11 Not Used



**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

DNP BINARY INPUTS (continued from last page)

DNP Binary Input Block 12	Not Used
DNP Binary Input Block 13	Not Used
DNP Binary Input Block 14	Not Used
DNP Binary Input Block 15	Not Used
DNP Binary Input Block 16	Not Used
DNP Binary Input Block 17	Not Used
DNP Binary Input Block 18	Not Used
DNP Binary Input Block 19	Not Used
DNP Binary Input Block 20	Not Used
DNP Binary Input Block 21	Not Used
DNP Binary Input Block 22	Not Used
DNP Binary Input Block 23	Not Used
DNP Binary Input Block 24	Not Used
DNP Binary Input Block 25	Not Used
DNP Binary Input Block 26	Not Used
DNP Binary Input Block 27	Not Used
DNP Binary Input Block 28	Not Used
DNP Binary Input Block 29	Not Used
DNP Binary Input Block 30	Not Used
DNP Binary Input Block 31	Not Used
DNP Binary Input Block 32	Not Used
DNP Binary Input Block 33	Not Used
DNP Binary Input Block 34	Not Used
DNP Binary Input Block 35	Not Used
DNP Binary Input Block 36	Not Used
DNP Binary Input Block 37	Not Used
DNP Binary Input Block 38	Not Used
DNP Binary Input Block 39	Not Used
DNP Binary Input Block 40	Not Used
DNP Binary Input Block 41	Not Used
DNP Binary Input Block 42	Not Used
DNP Binary Input Block 43	Not Used
DNP Binary Input Block 44	Not Used
DNP Binary Input Block 45	Not Used
DNP Binary Input Block 46	Not Used
DNP Binary Input Block 47	Not Used
DNP Binary Input Block 48	Not Used
DNP Binary Input Block 49	Not Used
DNP Binary Input Block 50	Not Used
DNP Binary Input Block 51	Not Used
DNP Binary Input Block 52	Not Used
DNP Binary Input Block 53	Not Used
DNP Binary Input Block 54	Not Used
DNP Binary Input Block 55	Not Used
DNP Binary Input Block 56	Not Used
DNP Binary Input Block 57	Not Used
DNP Binary Input Block 58	Not Used

UCA MMS

Default GSSE/GOOSE Update Time	60 s
UCA Logical Device Name	UCADevice
MMS TCP Port Number	102
GSSE Function	Enabled
UCA GLOBE.ST.LocRemDS	OFF

HTTP

HTTP TCP Port Number	80
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TFTP

TFTP Main UDP Port Number	69
TFTP Data UDP Port Number 1	0
TFTP Data UDP Port Number 2	0

MODBUS USER MAP

Address 1	5376
Address 2	5377
Address 3	5378
Address 4	5379
Address 5	5380
Address 6	5381

QUICK CONNECT

QUICK CONNECT DEVICE

DEVICE DEFINITION

ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N

VERSION: 3.4X

DESCRIPTION: (NONE)

INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502

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MODBUS USER MAP (continued from last page)

Address 7	5416
Address 8	5417
Address 9	5418
Address 10	5419
Address 11	5420
Address 12	5421
Address 13	2304
Address 14	2305
Address 15	2306
Address 16	2307
Address 21	13312
Address 22	13313
Address 23	13504
Address 24	13505
Address 25	13506
Address 26	13507
Address 27	13508
Address 28	13509
Address 29	13510
Address 30	13511
Address 31	13512
Address 32	13513
Address 33	13514
Address 34	13515
Address 35	13516
Address 36	13517
Address 37	13518
Address 38	13519
Address 39	13520
Address 40	13521
Address 41	13522
Address 42	13523
Address 43	13524
Address 44	13525
Address 45	13526
Address 46	13527
Address 47	13528
Address 48	13529
Address 49	13530
Address 50	13531
Address 51	13532
Address 52	13533
Address 53	13534
Address 54	13535
Address 55	6677
Address 56	6678
Address 57	6680
Address 58	6681
Address 59	6683
Address 60	6684
Address 61	6688
Address 62	6689
Address 63	6152
Address 64	6153
Address 65	6155
Address 66	6156
Address 67	6158
Address 68	6159
Address 69	7168
Address 70	7169
Address 71	7176
Address 72	7177
Address 73	7192
Address 75	6741
Address 76	6742
Address 77	6744
Address 78	6745
Address 79	6747
Address 80	6748
Address 81	6752

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

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MODBUS USER MAP (continued from last page)

Address 82	6753
Address 83	6216
Address 84	6217
Address 85	6219
Address 86	6220
Address 87	6222
Address 88	6223
Address 89	7200
Address 90	7201
Address 91	7208
Address 92	7209
Address 93	7224
Address 95	6805
Address 96	6806
Address 97	6808
Address 98	6809
Address 99	6811
Address 100	6812
Address 101	6816
Address 102	6817
Address 103	6280
Address 104	6281
Address 105	6283
Address 106	6284
Address 107	6286
Address 108	6287
Address 109	7232
Address 110	7233
Address 111	7240
Address 112	7241
Address 113	7256
Address 115	6869
Address 116	6870
Address 117	6872
Address 118	6873
Address 119	6875
Address 120	6876
Address 121	6880
Address 122	6881
Address 123	6344
Address 124	6345
Address 125	6347
Address 126	6348
Address 127	6350
Address 128	6351
Address 129	7264
Address 130	7265
Address 131	7272
Address 132	7273
Address 133	7288
Address 135	6933
Address 136	6934
Address 137	6936
Address 138	6937
Address 139	6939
Address 140	6940
Address 141	6944
Address 142	6945
Address 143	6408
Address 144	6409
Address 145	6411
Address 146	6412
Address 147	6414
Address 148	6415
Address 149	7296
Address 150	7297
Address 151	7304
Address 152	7305
Address 153	7320
Address 155	7552

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

MODBUS USER MAP (continued from last page)

Address 157	45584
Address 189	6172
Address 193	6694
Address 195	6236
Address 199	6758
Address 201	6300
Address 205	6822
Address 207	6364
Address 211	6886
Address 213	6428
Address 217	6950
Address 219	6492
Address 223	7014

REAL TIME CLOCK

IRIG-B Signal Type	DC Shift
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FAULT REPORT

Fault Report 1 Source	SRC 1 (SRC 1)
Fault Report 1 Trigger	TRIP 52H1 On (VO1)

OSCILLOGRAPHY

Number Of Records	5
Trigger Mode	Automatic Overwrite
Trigger Position	50 %
Trigger Source	OSILOGRAFIA On (VO2)
AC Input Waveforms	64 samples/cycle
Digital Channel 1	PHASE TOC1 PKP
Digital Channel 2	PHASE TOC1 OP
Digital Channel 3	PHASE IOC1 OP
Digital Channel 4	PHASE TOC2 PKP
Digital Channel 5	PHASE TOC2 OP
Digital Channel 6	NEUTRAL TOC1 PKP
Digital Channel 7	NEUTRAL TOC1 OP
Digital Channel 8	PHASE UV1 OP
Digital Channel 9	PHASE UV2 OP
Digital Channel 10	AUX OV 1 OP
Digital Channel 11	SRC1 VT FUSE FAIL OP
Digital Channel 12	SRC1 VT FUSE FAIL VOL LOSS
Digital Channel 13	PHASE UV1 PKP
Digital Channel 14	PHASE UV1 OP
Digital Channel 15	ST_52H1_AB On(H7a)
Digital Channel 16	ST_52H1_CE On(H7c)
Digital Channel 17	AL_SF6_H1 On(H8a)
Digital Channel 18	AL_BLQ_SF6H1 On(H8c)
Digital Channel 19	AL_RESDDES_H1 On(P7c)
Digital Channel 20	ST_52C2_CE On(U7c)
Digital Channel 21	ST_52C2_AB On(U7a)
Digital Channel 22	TRIP 52H1 On (VO1)
Digital Channel 23	ST_89H1_AB On (VO43)
Digital Channel 24	ST_89H1_CE On (VO44)
Digital Channel 25	AL_EDAC.TP.F On (VO51)
Digital Channel 26	AL_ESC.ACTIV On (VO52)
Digital Channel 27	AB 52C2 EDAC On (VO6)
Digital Channel 28	AB 52C2 EDAC VOn (U2)
Digital Channel 29	AB 52C2 EDAC IOn (U2)
Digital Channel 30	AL_ESC.ACTIV On (VO52)
Digital Channel 31	EDAC ESC1 On (VO11)
Digital Channel 32	EDAC ESC2 On (VO12)
Digital Channel 33	EDAC ESC3 On (VO13)
Digital Channel 34	EDAC ESC4 On (VO14)
Digital Channel 35	EDAC ESC5 On (VO15)
Digital Channel 36	EDAC ESC6 On (VO16)
Digital Channel 37	AL_27/59P On (VO53)
Analog Channel 1	SRC1 Ia RMS
Analog Channel 2	SRC1 Ib RMS
Analog Channel 3	SRC1 Ic RMS
Analog Channel 4	SRC1 In RMS
Analog Channel 5	SRC1 Vag RMS
Analog Channel 6	SRC1 Vbg RMS

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

OSCILLOGRAPHY (continued from last page)

Analog Channel 7	SRC1	Vcg RMS
Analog Channel 8	SRC1	I <sub>0</sub> Mag
Analog Channel 9	SRC1	I <sub>0</sub> Angle
Analog Channel 10	SRC1	V <sub>0</sub> Mag
Analog Channel 11	SRC1	V <sub>0</sub> Angle
Analog Channel 12	SRC1	V <sub>x</sub> RMS
Analog Channel 13	SRC1	Frequency
Analog Channel 14	SRC1	P
Analog Channel 15	SRC1	Q
Analog Channel 16		Freq Rate 1 Value

DATA LOGGER

Rate	1 sec
Channel 1	SRC1 Frequency
Channel 2	Freq Rate 1 Value
Configuration	0 CHNL x 0.0 DAYS

DEMAND

Current Method	Thermal Exponential
Power Method	Thermal Exponential
Interval	15 MIN
Trigger	OFF

**USER-PROGRAMMABLE LEADS**

TRIP AND ALARMS LEADS

Trip LED Input	TRIP 52H1 On (VO1)
Alarm LED Input	ANY MAJOR ERROR

USER PROGRAMMABLE LEADS

LED 1: OPERAND	SETTING GROUP ACT 1
LED 1: TYPE	Self-Reset
LED 2: OPERAND	SETTING GROUP ACT 2
LED 2: TYPE	Self-Reset
LED 3: OPERAND	SETTING GROUP ACT 3
LED 3: TYPE	Self-Reset
LED 4: OPERAND	SETTING GROUP ACT 4
LED 4: TYPE	Self-Reset
LED 5: OPERAND	SETTING GROUP ACT 5
LED 5: TYPE	Self-Reset
LED 6: OPERAND	SETTING GROUP ACT 6
LED 6: TYPE	Self-Reset
LED 9: OPERAND	ST_52H1_AB On(H7a)
LED 9: TYPE	Self-Reset
LED 10: OPERAND	ST_52H1_CE On(H7c)
LED 10: TYPE	Self-Reset
LED 11: OPERAND	AL_BLQ_SF6H1 On(H8c)
LED 11: TYPE	Self-Reset
LED 25: OPERAND	PHASE TOC1 OP A
LED 25: TYPE	Latched
LED 26: OPERAND	PHASE TOC1 OP B
LED 26: TYPE	Latched
LED 27: OPERAND	PHASE TOC1 OP C
LED 27: TYPE	Latched
LED 28: OPERAND	NTRL DIR OC1 FWD
LED 28: TYPE	Latched
LED 33: OPERAND	AL_SF6_H1 On(H8a)
LED 33: TYPE	Self-Reset
LED 34: OPERAND	AL_BLQ_SF6H1 On(H8c)
LED 34: TYPE	Self-Reset
LED 41: OPERAND	SECAL 27 On (VO3)
LED 41: TYPE	Latched
LED 42: OPERAND	PHASE UV1 OP A
LED 42: TYPE	Latched
LED 43: OPERAND	PHASE UV1 OP B
LED 43: TYPE	Latched
LED 44: OPERAND	PHASE UV1 OP C
LED 44: TYPE	Latched
LED 46: OPERAND	ST_52C2_CE On(U7c)
LED 46: TYPE	Self-Reset
LED 47: OPERAND	ST_52C2_AB On(U7a)

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

USER PROGRAMMABLE LEADS (continued from last page)

LED 47: TYPE Self-Reset  
 LED 48: OPERAND EDAC ESC5 On (VO15)  
 LED 48: TYPE Latched

USER-PROGRAMMABLE SELF TESTS

Remote Device Off Function Enabled  
 Battery Fail Function Enabled  
 IRIG B Fail Function Enabled

CONTROL PUSHBUTTONS

CPB 1: Function Enabled  
 CPB 1: Events Disabled

USER-DEFINABLE DISPLAYS

USER DISPLAY 1: Top Line Aperturas totales  
 USER DISPLAY 1: Bottom Line ~  
 USER DISPLAY 1: Item 1 2048  
 USER DISPLAY 1: Item 2 0  
 USER DISPLAY 1: Item 3 0  
 USER DISPLAY 1: Item 4 0  
 USER DISPLAY 1: Item 5 0  
 USER DISPLAY 2: Top Line Operaciones totales  
 USER DISPLAY 2: Bottom Line ~  
 USER DISPLAY 2: Item 1 2056  
 USER DISPLAY 2: Item 2 0  
 USER DISPLAY 2: Item 3 0  
 USER DISPLAY 2: Item 4 0  
 USER DISPLAY 2: Item 5 0  
 USER DISPLAY 3: Top Line Corrientes Ia:~  
 USER DISPLAY 3: Bottom Line b:~ c:~  
 USER DISPLAY 3: Item 1 6144  
 USER DISPLAY 3: Item 2 6146  
 USER DISPLAY 3: Item 3 6148  
 USER DISPLAY 3: Item 4 0  
 USER DISPLAY 3: Item 5 0  
 USER DISPLAY 4: Top Line Potencia Activa  
 USER DISPLAY 4: Bottom Line 3P: ~  
 USER DISPLAY 4: Item 1 7168  
 USER DISPLAY 4: Item 2 0  
 USER DISPLAY 4: Item 3 0  
 USER DISPLAY 4: Item 4 0  
 USER DISPLAY 4: Item 5 0  
 USER DISPLAY 5: Top Line Potencia Reactiva  
 USER DISPLAY 5: Bottom Line 3P: ~  
 USER DISPLAY 5: Item 1 7176  
 USER DISPLAY 5: Item 2 0  
 USER DISPLAY 5: Item 3 0  
 USER DISPLAY 5: Item 4 0  
 USER DISPLAY 5: Item 5 0  
 USER DISPLAY 6: Top Line Factor de Potencia  
 USER DISPLAY 6: Bottom Line 3P: ~  
 USER DISPLAY 6: Item 1 7192  
 USER DISPLAY 6: Item 2 0  
 USER DISPLAY 6: Item 3 0  
 USER DISPLAY 6: Item 4 0  
 USER DISPLAY 6: Item 5 0  
 USER DISPLAY 7: Top Line Frecuencia Sistema  
 USER DISPLAY 7: Bottom Line ~  
 USER DISPLAY 7: Item 1 7552  
 USER DISPLAY 7: Item 2 0  
 USER DISPLAY 7: Item 3 0  
 USER DISPLAY 7: Item 4 0  
 USER DISPLAY 7: Item 5 0  
 USER DISPLAY 8: Top Line Energia Activa Pos  
 USER DISPLAY 8: Bottom Line ~  
 USER DISPLAY 8: Item 1 7424  
 USER DISPLAY 8: Item 2 0  
 USER DISPLAY 8: Item 3 0  
 USER DISPLAY 8: Item 4 0  
 USER DISPLAY 8: Item 5 0

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

USER-DEFINABLE DISPLAYS (continued from last page)

USER DISPLAY 9: Top Line	Energia Activa Neg
USER DISPLAY 9: Bottom Line	~
USER DISPLAY 9: Item 1	7426
USER DISPLAY 9: Item 2	0
USER DISPLAY 9: Item 3	0
USER DISPLAY 9: Item 4	0
USER DISPLAY 9: Item 5	0
USER DISPLAY 10: Top Line	Energia Reactiva Pos
USER DISPLAY 10: Bottom Line	~
USER DISPLAY 10: Item 1	7428
USER DISPLAY 10: Item 2	0
USER DISPLAY 10: Item 3	0
USER DISPLAY 10: Item 4	0
USER DISPLAY 10: Item 5	0
USER DISPLAY 11: Top Line	Energia Reactiva Neg
USER DISPLAY 11: Bottom Line	~
USER DISPLAY 11: Item 1	7430
USER DISPLAY 11: Item 2	0
USER DISPLAY 11: Item 3	0
USER DISPLAY 11: Item 4	0
USER DISPLAY 11: Item 5	0
USER DISPLAY 12: Top Line	SETTINGS
USER DISPLAY 12: Bottom Line	GROUPED ELEMENTS
USER DISPLAY 12: Item 1	0
USER DISPLAY 12: Item 2	0
USER DISPLAY 12: Item 3	0
USER DISPLAY 12: Item 4	0
USER DISPLAY 12: Item 5	0
USER DISPLAY 13: Top Line	Fecha y Hora:
USER DISPLAY 13: Bottom Line	~
USER DISPLAY 13: Item 1	16800
USER DISPLAY 13: Item 2	0
USER DISPLAY 13: Item 3	0
USER DISPLAY 13: Item 4	0
USER DISPLAY 13: Item 5	0
USER DISPLAY 14: Top Line	EMELAT
USER DISPLAY 14: Bottom Line	S/E VALLENAR
USER DISPLAY 14: Item 1	0
USER DISPLAY 14: Item 2	0
USER DISPLAY 14: Item 3	0
USER DISPLAY 14: Item 4	0
USER DISPLAY 14: Item 5	0
USER DISPLAY 15: Top Line	L. ALTO DEL CARMEN
USER DISPLAY 15: Bottom Line	PROT. S2 (50/51N)
USER DISPLAY 15: Item 1	0
USER DISPLAY 15: Item 2	0
USER DISPLAY 15: Item 3	0
USER DISPLAY 15: Item 4	0
USER DISPLAY 15: Item 5	0
USER DISPLAY 16: Top Line	Ajuste: 08-10-2010
USER DISPLAY 16: Bottom Line	Firmware 3.49
USER DISPLAY 16: Item 1	0
USER DISPLAY 16: Item 2	0
USER DISPLAY 16: Item 3	0
USER DISPLAY 16: Item 4	0
USER DISPLAY 16: Item 5	0
Invoke and Scroll	CONTROL PUSHBUTTON 1 ON

INSTALLATION

Relay Settings	Programmed
Relay Name	Relay-1

SYSTEM SETUP

AC INPUTS

CURRENT

CT F1: Phase CT Primary	150 A
CT F1: Phase CT Secondary	5 A
CT F1: Ground CT Primary	150 A
CT F1: Ground CT Secondary	5 A

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

VOLTAGE

VT F5: Phase VT Connection	Wye
VT F5: Phase VT Secondary	113.0 V
VT F5: Phase VT Ratio	577.35 :1
VT F5: Auxiliary VT Connection	Vag
VT F5: Auxiliary VT Secondary	231.0 V
VT F5: Auxiliary VT Ratio	58.57 :1

POWER SYSTEM

Nominal Frequency	50 Hz
Phase Rotation	ABC
Frequency And Phase Reference	SRC 1 (SRC 1)
Frequency Tracking Function	Enabled

SIGNAL SOURCES

SOURCE 1: Name	SRC 1
SOURCE 1: Phase CT	F1
SOURCE 1: Ground CT	F1
SOURCE 1: Phase VT	F5
SOURCE 1: Auxiliary VT	F5

LINE

Pos Seq Impedance Magnitude	1.35 ohms
Pos Seq Impedance Angle	60 deg
Zero Seq Impedance Magnitude	2.91 ohms
Zero Seq Impedance Angle	72 deg
Line Length Units	km
Line Length	42.0

BKR SBO TIMER

BKR SBO Timeout	30 s
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**FLEXLOGIC**

FLEXLOGIC EQUATION EDITOR

FlexLogic Entry 1	PHASE TOC1 OP
FlexLogic Entry 2	PHASE TOC2 OP
FlexLogic Entry 3	PHASE IOC1 OP
FlexLogic Entry 4	NEUTRAL TOC1 OP
FlexLogic Entry 5	NEUTRAL TOC2 OP
FlexLogic Entry 6	OR(5)
FlexLogic Entry 7	= TRIP 52H1 (VO1)
FlexLogic Entry 8	PHASE UV1 OP
FlexLogic Entry 9	= SECAL 27 (VO3)
FlexLogic Entry 10	TRIP 52H1 On (VO1)
FlexLogic Entry 11	EDAC ESC5 On (VO15)
FlexLogic Entry 12	POSITIVE ONE SHOT
FlexLogic Entry 13	OR(2)
FlexLogic Entry 14	= OSIOLOGRAFIA (VO2)
FlexLogic Entry 15	UNDERFREQ 1 OP
FlexLogic Entry 16	FREQ RATE 1 OP
FlexLogic Entry 17	AND(2)
FlexLogic Entry 18	= EDAC ESC1 (VO11)
FlexLogic Entry 19	UNDERFREQ 2 OP
FlexLogic Entry 20	= EDAC ESC2 (VO12)
FlexLogic Entry 21	UNDERFREQ 3 OP
FlexLogic Entry 22	FREQ RATE 1 OP
FlexLogic Entry 23	AND(2)
FlexLogic Entry 24	= EDAC ESC3 (VO13)
FlexLogic Entry 25	UNDERFREQ 4 OP
FlexLogic Entry 26	= EDAC ESC4 (VO14)
FlexLogic Entry 27	UNDERFREQ 5 OP
FlexLogic Entry 28	= EDAC ESC5 (VO15)
FlexLogic Entry 29	UNDERFREQ 6 OP
FlexLogic Entry 30	= EDAC ESC6 (VO16)
FlexLogic Entry 31	AB 52C2 SCAD On (VI3)
FlexLogic Entry 32	EDAC ESC5 On (VO15)
FlexLogic Entry 33	OR(2)
FlexLogic Entry 34	TIMER 3
FlexLogic Entry 35	= AB 52C2 EDAC (VO6)
FlexLogic Entry 36	AL_SF6_H1 On(H8a)
FlexLogic Entry 37	= AL_SF6_H1 (VO35)



**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

FLEXLOGIC EQUATION EDITOR (continued from last page)

FlexLogic Entry 38	AL_BLQ_SF6H1 On(H8c)
FlexLogic Entry 39	= AL_BLQ_SF6H1 (VO36)
FlexLogic Entry 40	ST_REM_H1 On(P8a)
FlexLogic Entry 41	NOT
FlexLogic Entry 42	ST_52H1_AB On(H7a)
FlexLogic Entry 43	AND(2)
FlexLogic Entry 44	= AL_AP_52H1 (VO49)
FlexLogic Entry 45	AL_TM_C&M_H1 On(P7a)
FlexLogic Entry 46	= AL_TM_C&M_H1 (VO37)
FlexLogic Entry 47	AL_RESDÉS_H1 On(P7c)
FlexLogic Entry 48	= AL_RESDÉS_H1 (VO38)
FlexLogic Entry 49	TRIP_52H1 On(VO1)
FlexLogic Entry 50	TIMER 4
FlexLogic Entry 51	= AL_TRIP_H1 (VO50)
FlexLogic Entry 52	PHASE UV2 OP
FlexLogic Entry 53	= AL_EDAC.TP.F (VO51)
FlexLogic Entry 54	EDAC ESC1 On(VO11)
FlexLogic Entry 55	EDAC ESC2 On(VO12)
FlexLogic Entry 56	EDAC ESC3 On(VO13)
FlexLogic Entry 57	EDAC ESC4 On(VO14)
FlexLogic Entry 58	EDAC ESC5 On(VO15)
FlexLogic Entry 59	EDAC ESC6 On(VO16)
FlexLogic Entry 60	OR(6)
FlexLogic Entry 61	TIMER 5
FlexLogic Entry 62	= AL_ESC.ACTIV (VO52)
FlexLogic Entry 63	AUX OV 1 OP
FlexLogic Entry 64	AUX UV 1 OP
FlexLogic Entry 65	OR(2)
FlexLogic Entry 66	= AL_27/59P (VO53)
FlexLogic Entry 67	AL_CB_FALLA On(P8c)
FlexLogic Entry 68	= AL_CB_FALLA (VO40)
FlexLogic Entry 69	AL_CB_PTIERR On(U5a)
FlexLogic Entry 70	= AL_CB_PTIERR (VO41)
FlexLogic Entry 71	AL_TM_TP_PRO On(U8a)
FlexLogic Entry 72	= AL_TM_TP_ME (VO47)
FlexLogic Entry 73	AL_TM_TP_ME On(U8c)
FlexLogic Entry 74	= AL_TM_TP_PRO (VO48)
FlexLogic Entry 75	ST_89H1_AB On(U6a)
FlexLogic Entry 76	= ST_89H1_AB (VO43)
FlexLogic Entry 77	ST_89H1_CE On(U6c)
FlexLogic Entry 78	= ST_89H1_CE (VO44)
FlexLogic Entry 79	ST_REM_H1 On(P8a)
FlexLogic Entry 80	= ST_REM_H1 (VO39)
FlexLogic Entry 81	TRIP_52H1 On(VO1)
FlexLogic Entry 82	= TX2_TDD (VO10)
FlexLogic Entry 83	END

FLEXLOGIC TIMERS

Timer 3: Type	millisecond
Timer 3: Pickup Delay	0
Timer 3: Dropout Delay	400
Timer 4: Type	second
Timer 4: Pickup Delay	0
Timer 4: Dropout Delay	1
Timer 5: Type	second
Timer 5: Pickup Delay	0
Timer 5: Dropout Delay	1

**GROUPED ELEMENTS**

**GROUP 1**

**PHASE CURRENT**

PHASE TOC [GROUP 1]

PHASE TOC1: Function	Enabled
PHASE TOC1: Signal Source	SRC 1 (SRC 1)
PHASE TOC1: Input	Phasor
PHASE TOC1: Pickup	1.200 pu
PHASE TOC1: Curve	IEC Curve B
PHASE TOC1: TD Multiplier	0.43
PHASE TOC1: Reset	Instantaneous
PHASE TOC1: Voltage Restraint	Disabled

## QUICK CONNECT

## QUICK CONNECT DEVICE

## DEVICE DEFINITION

ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N

VERSION: 3.4X

DESCRIPTION: (NONE)

INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502

PHASE TOC [GROUP 1] (continued from last page)

PHASE TOC1: Block A	PH DIR1 BLK A
PHASE TOC1: Block B	PH DIR1 BLK B
PHASE TOC1: Block C	PH DIR1 BLK C
PHASE TOC1: Target	Latched
PHASE TOC1: Events	Enabled
PHASE TOC2: Function	Enabled
PHASE TOC2: Signal Source	SRC 1 (SRC 1)
PHASE TOC2: Input	Phasor
PHASE TOC2: Pickup	0.250 pu
PHASE TOC2: Curve	IEC Curve A
PHASE TOC2: TD Multiplier	0.08
PHASE TOC2: Reset	Instantaneous
PHASE TOC2: Voltage Restraint	Disabled
PHASE TOC2: Block A	PH DIR2 BLK A
PHASE TOC2: Block B	PH DIR2 BLK B
PHASE TOC2: Block C	PH DIR2 BLK C
PHASE TOC2: Target	Latched
PHASE TOC2: Events	Enabled

PHASE IOC [GROUP 1]

PHASE IOC1: Function	Enabled
PHASE IOC1: Source	SRC 1 (SRC 1)
PHASE IOC1: Pickup	6.000 pu
PHASE IOC1: Delay	0.33 s
PHASE IOC1: Reset Delay	0.00 s
PHASE IOC1: Block A	PH DIR1 BLK A
PHASE IOC1: Block B	PH DIR1 BLK B
PHASE IOC1: Block C	PH DIR1 BLK C
PHASE IOC1: Target	Latched
PHASE IOC1: Events	Enabled

PHASE DIRECTIONAL [GROUP 1]

PHASE DIR1: Function	Enabled
PHASE DIR1: Source	SRC 1 (SRC 1)
PHASE DIR1: Block	SRC1 VT FUSE FAIL OP
PHASE DIR1: ECA	30 ° Lag
PHASE DIR1: Pol V Threshold	0.700 pu
PHASE DIR1: Block when V Mem Exp	No
PHASE DIR1: Target	Self-reset
PHASE DIR1: Events	Disabled
PHASE DIR2: Function	Enabled
PHASE DIR2: Source	SRC 1 (SRC 1)
PHASE DIR2: Block	SRC1 VT FUSE FAIL OP
PHASE DIR2: ECA	210 ° Lag
PHASE DIR2: Pol V Threshold	0.700 pu
PHASE DIR2: Block when V Mem Exp	No
PHASE DIR2: Target	Self-reset
PHASE DIR2: Events	Enabled

## NEUTRAL CURRENT

NEUTRAL TOC [GROUP 1]

NEUTRAL TOC1: Function	Enabled
NEUTRAL TOC1: Source	SRC 1 (SRC 1)
NEUTRAL TOC1: Input	Phasor
NEUTRAL TOC1: Pickup	0.120 pu
NEUTRAL TOC1: Curve	IAC Very Inv
NEUTRAL TOC1: TD Multiplier	3.50
NEUTRAL TOC1: Reset	Instantaneous
NEUTRAL TOC1: Block	NTRL DIR OC1 REV
NEUTRAL TOC1: Target	Self-reset
NEUTRAL TOC1: Events	Enabled
NEUTRAL TOC2: Function	Enabled
NEUTRAL TOC2: Source	SRC 1 (SRC 1)
NEUTRAL TOC2: Input	Phasor
NEUTRAL TOC2: Pickup	0.100 pu
NEUTRAL TOC2: Curve	IEC Curve A
NEUTRAL TOC2: TD Multiplier	0.17
NEUTRAL TOC2: Reset	Instantaneous
NEUTRAL TOC2: Block	NTRL DIR OC1 FWD
NEUTRAL TOC2: Target	Self-reset

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

NEUTRAL TOC [GROUP 1] (continued from last page)

NEUTRAL TOC2: Events Enabled

NEUTRAL DIRECTIONAL OC [GROUP 1]

NEUTRAL DIR OC1: Function Enabled  
 NEUTRAL DIR OC1: Source SRC 1 (SRC 1)  
 NEUTRAL DIR OC1: Polarizing Voltage  
 NEUTRAL DIR OC1: Polarizing Volt Calculated V0  
 NEUTRAL DIR OC1: Op Current Calculated 310  
 NEUTRAL DIR OC1: Offset 0.00 ohms  
 NEUTRAL DIR OC1: Forward ECA 57 ° Lag  
 NEUTRAL DIR OC1: Forward Limit Angle 90 deg  
 NEUTRAL DIR OC1: Forward Pickup 0.050 pu  
 NEUTRAL DIR OC1: Reverse Limit Angle 90 deg  
 NEUTRAL DIR OC1: Reverse Pickup 0.050 pu  
 NEUTRAL DIR OC1: Block SRC1 VT FUSE FAIL OP  
 NEUTRAL DIR OC1: Target Self-reset  
 NEUTRAL DIR OC1: Events Enabled

**VOLTAGE ELEMENTS**

PHASE UV [GROUP 1]

PHASE UV1: Function Enabled  
 PHASE UV1: Signal Source SRC 1 (SRC 1)  
 PHASE UV1: Mode Phase to Phase  
 PHASE UV1: Pickup 0.300 pu  
 PHASE UV1: Curve Definite Time  
 PHASE UV1: Delay 1.00 s  
 PHASE UV1: Minimum Voltage 0.100 pu  
 PHASE UV1: Block OFF  
 PHASE UV1: Target Latched  
 PHASE UV1: Events Enabled  
 PHASE UV2: Function Enabled  
 PHASE UV2: Signal Source SRC 1 (SRC 1)  
 PHASE UV2: Mode Phase to Phase  
 PHASE UV2: Pickup 0.200 pu  
 PHASE UV2: Curve Definite Time  
 PHASE UV2: Delay 1.00 s  
 PHASE UV2: Minimum Voltage 0.100 pu  
 PHASE UV2: Block OFF  
 PHASE UV2: Target Self-reset  
 PHASE UV2: Events Enabled

AUXILIARY UV [GROUP 1]

AUXILIARY UV 1: Function Enabled  
 AUXILIARY UV 1: Source SRC 1 (SRC 1)  
 AUXILIARY UV 1: Pickup 0.950 pu  
 AUXILIARY UV 1: Curve Definite Time  
 AUXILIARY UV 1: Delay 0.00 s  
 AUXILIARY UV 1: Minimum Voltage 0.000 pu  
 AUXILIARY UV 1: Block OFF  
 AUXILIARY UV 1: Target Self-reset  
 AUXILIARY UV 1: Events Enabled

AUXILIARY OV [GROUP 1]

AUXILIARY OV 1: Function Enabled  
 AUXILIARY OV 1: Source SRC 1 (SRC 1)  
 AUXILIARY OV 1: Pickup 1.060 pu  
 AUXILIARY OV 1: Pickup Delay 1.00 s  
 AUXILIARY OV 1: Reset Delay 1.00 s  
 AUXILIARY OV 1: Block OFF  
 AUXILIARY OV 1: Target Self-reset  
 AUXILIARY OV 1: Events Enabled

**CONTROL ELEMENTS**

UNDERFREQUENCY

UNDERFREQUENCY 5: Function Enabled  
 UNDERFREQUENCY 5: Block OFF  
 UNDERFREQUENCY 5: Source SRC 1 (SRC 1)  
 UNDERFREQUENCY 5: Min Volt/Amp 0.10 pu  
 UNDERFREQUENCY 5: Pickup 48.50 Hz  
 UNDERFREQUENCY 5: Pickup Delay 0.000 s

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

UNDERFREQUENCY (continued from last page)

UNDERFREQUENCY 5: Reset Delay	0.000 s
UNDERFREQUENCY 5: Target	Disabled
UNDERFREQUENCY 5: Events	Enabled

AUTORECLOSE

AUTORECLOSE1: Function	Enabled
AUTORECLOSE1: Initiate	OFF
AUTORECLOSE1: Block	OFF
AUTORECLOSE1: Max Number Of Shots	1
AUTORECLOSE1: Reduce Max to 1	OFF
AUTORECLOSE1: Reduce Max to 2	OFF
AUTORECLOSE1: Reduce Max to 3	OFF
AUTORECLOSE1: Manual Close	OFF
AUTORECLOSE1: Manual Reset from LO	OFF
AUTORECLOSE1: Reset Lockout if Breaker Closed	Off
AUTORECLOSE1: Reset Lockout On Manual Close	Off
AUTORECLOSE1: Breaker Closed	OFF
AUTORECLOSE1: Breaker Open	OFF
AUTORECLOSE1: Block Time Upon Manual Close	10.00 s
AUTORECLOSE1: Dead Time Shot 1	1.00 s
AUTORECLOSE1: Dead Time Shot 2	2.00 s
AUTORECLOSE1: Dead Time Shot 3	3.00 s
AUTORECLOSE1: Dead Time Shot 4	4.00 s
AUTORECLOSE1: Add Delay 1	OFF
AUTORECLOSE1: Delay 1	0.00 s
AUTORECLOSE1: Add Delay 2	OFF
AUTORECLOSE1: Delay 2	0.00 s
AUTORECLOSE1: Reset Lockout Delay	60.00 s
AUTORECLOSE1: Reset Time	60.00 s
AUTORECLOSE1: Incomplete Sequence Time	11.00 s
AUTORECLOSE1: Events	Disabled

DIGITAL ELEMENTS

Digital Element 1 Function	Enabled
Digital Element 1 Name	ABRIENDO 52H1
Digital Element 1 Input	AB 52H1 SCAD On (VI1)
Digital Element 1 Pickup Delay	0.000 s
Digital Element 1 Reset Delay	0.400 s
Digital Element 1 Block	OFF
Digital Element 1 Target	Self-reset
Digital Element 1 Events	Disabled
Digital Element 2 Function	Enabled
Digital Element 2 Name	CERRANDO 52H1
Digital Element 2 Input	CE 52H1 SCAD On (VI2)
Digital Element 2 Pickup Delay	0.000 s
Digital Element 2 Reset Delay	0.400 s
Digital Element 2 Block	OFF
Digital Element 2 Target	Self-reset
Digital Element 2 Events	Disabled
Digital Element 3 Function	Enabled
Digital Element 3 Name	CERRADO 52C2
Digital Element 3 Input	CE 52C2 SCAD On (VI4)
Digital Element 3 Pickup Delay	0.000 s
Digital Element 3 Reset Delay	0.400 s
Digital Element 3 Block	OFF
Digital Element 3 Target	Self-reset
Digital Element 3 Events	Disabled

DIGITAL COUNTERS

Digital Counter 1 Function	Enabled
Digital Counter 1 Name	APER.TOT
Digital Counter 1 Units	
Digital Counter 1 Preset	0
Digital Counter 1 Compare	0
Digital Counter 1 Up	ST_52H1_AB On(H7a)
Digital Counter 1 Down	OFF
Digital Counter 1 Block	OFF
Digital Counter 1 Set To Preset	OFF
Digital Counter 1 Reset	RST COUNTERS On (VI32)
Digital Counter 1 Freeze/Reset	OFF

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

DIGITAL COUNTERS (continued from last page)

Digital Counter 1 Freeze/Count	ST_52H1_AB On(H7a)
Digital Counter 2 Function	Enabled
Digital Counter 2 Name	OPER.TOT
Digital Counter 2 Units	
Digital Counter 2 Preset	0
Digital Counter 2 Compare	0
Digital Counter 2 Up	TRIP 52H1 On (VO1)
Digital Counter 2 Down	OFF
Digital Counter 2 Block	OFF
Digital Counter 2 Set To Preset	OFF
Digital Counter 2 Reset	RST COUNTERS On (VI32)
Digital Counter 2 Freeze/Reset	OFF
Digital Counter 2 Freeze/Count	TRIP 52H1 On (VO1)

**MONITORING ELEMENTS**

VT FUSE FAILURE

VT FUSE FAILURE 1: Function	Enabled
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FREQUENCY RATE OF CHANGE

FREQ RATE 1: Function	Enabled
FREQ RATE 1: Source	SRC 1 (SRC 1)
FREQ RATE 1: Trend	Decreasing
FREQ RATE 1: Pickup	0.60 Hz/s
FREQ RATE 1: OV Supv	0.400 pu
FREQ RATE 1: OC Supv	0.000 pu
FREQ RATE 1: Min	45.00 Hz
FREQ RATE 1: Max	50.00 Hz
FREQ RATE 1: Pickup Delay	0.000 s
FREQ RATE 1: Reset Delay	0.000 s
FREQ RATE 1: Block	OFF
FREQ RATE 1: Target	Disabled
FREQ RATE 1: Events	Disabled

**INPUTS/OUTPUTS**

CONTACT INPUTS

[H7a] Contact Input 7a ID	ST_52H1_AB
[H7a] Contact Input 7a Debounce Time	2.0 ms
[H7a] Contact Input 7a Events	Enabled
[H7c] Contact Input 7c ID	ST_52H1_CE
[H7c] Contact Input 7c Debounce Time	2.0 ms
[H7c] Contact Input 7c Events	Enabled
[H8a] Contact Input 8a ID	AL_SF6_H1
[H8a] Contact Input 8a Debounce Time	2.0 ms
[H8a] Contact Input 8a Events	Enabled
[H8c] Contact Input 8c ID	AL_BLQ_SF6H1
[H8c] Contact Input 8c Debounce Time	2.0 ms
[H8c] Contact Input 8c Events	Enabled
[P7a] Contact Input 7a ID	AL_TM_C&M_H1
[P7a] Contact Input 7a Debounce Time	2.0 ms
[P7a] Contact Input 7a Events	Enabled
[P7c] Contact Input 7c ID	AL_RESDDES_H1
[P7c] Contact Input 7c Debounce Time	2.0 ms
[P7c] Contact Input 7c Events	Enabled
[P8a] Contact Input 8a ID	ST_REM_H1
[P8a] Contact Input 8a Debounce Time	2.0 ms
[P8a] Contact Input 8a Events	Enabled
[P8c] Contact Input 8c ID	AL_CB_FALLA
[P8c] Contact Input 8c Debounce Time	2.0 ms
[P8c] Contact Input 8c Events	Disabled
[U5a] Contact Input 5a ID	AL_CB_PTIERR
[U5a] Contact Input 5a Debounce Time	2.5 ms
[U5a] Contact Input 5a Events	Enabled
[U5c] Contact Input 5c ID	DISPONIBLE
[U5c] Contact Input 5c Debounce Time	2.0 ms
[U5c] Contact Input 5c Events	Enabled
[U6a] Contact Input 6a ID	ST_89H1_AB
[U6a] Contact Input 6a Debounce Time	2.0 ms
[U6a] Contact Input 6a Events	Enabled
[U6c] Contact Input 6c ID	ST_89H1_CE
[U6c] Contact Input 6c Debounce Time	2.0 ms

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

CONTACT INPUTS (continued from last page)

[U6c] Contact Input 6c Events	Enabled
[U7a] Contact Input 7a ID	ST_52C2_AB
[U7a] Contact Input 7a Debounce Time	2.0 ms
[U7a] Contact Input 7a Events	Enabled
[U7c] Contact Input 7c ID	ST_52C2_CE
[U7c] Contact Input 7c Debounce Time	2.0 ms
[U7c] Contact Input 7c Events	Enabled
[U8a] Contact Input 8a ID	AL_TM TP PRO
[U8a] Contact Input 8a Debounce Time	2.0 ms
[U8a] Contact Input 8a Events	Enabled
[U8c] Contact Input 8c ID	AL_TM TP ME
[U8c] Contact Input 8c Debounce Time	2.0 ms
[U8c] Contact Input 8c Events	Enabled

CONTACT INPUT THRESHOLDS

ST_52H1_AB ST_52H1_CE AL_SF6_H1 AL_BLQ_SF6H1(H7a H7c H8a H8c)	84 Vdc
AL_TM_C&M_H1 AL_RESDES_H1 ST_REM_H1 AL_CB_FALLA(P7a P7c P8a P8c)	33 Vdc
AL_CB_PTIERR_DISPONIBLE ST_89H1_AB ST_89H1_CE(U5a U5c U6a U6c)	33 Vdc
ST_52C2_AB ST_52C2_CE AL_TM_TP_PRO AL_TM_TP_ME(U7a U7c U8a U8c)	17 Vdc

VIRTUAL INPUTS

VIRTUAL INPUTS

Virtual Input 1 Function	Enabled
Virtual Input 1 ID	AB 52H1 SCAD
Virtual Input 1 Type	Self-Reset
Virtual Input 1 Events	Enabled
Virtual Input 2 Function	Enabled
Virtual Input 2 ID	CE 52H1 SCAD
Virtual Input 2 Type	Self-Reset
Virtual Input 2 Events	Enabled
Virtual Input 32 Function	Enabled
Virtual Input 32 ID	RST COUNTERS
Virtual Input 32 Type	Self-Reset
Virtual Input 32 Events	Enabled

UCA SBO TIMER

Timeout	30 s
---------	------

CONTACT OUTPUTS

[H3] Contact Output 3 ID	TRIP-1
[H3] Contact Output 3 Operate	TRIP 52H1 On (VO1)
[H3] Contact Output 3 Seal-In	OFF
[H3] Contact Output 3 Events	Enabled
[P1] Contact Output 7 ID	AB 52H1 x SC
[P1] Contact Output 7 Operate	ABRIENDO 52H1(DE1) OP
[P1] Contact Output 7 Seal-In	OFF
[P1] Contact Output 7 Events	Enabled
[P2] Contact Output 8 ID	CE 52H1 x SC
[P2] Contact Output 8 Operate	CERRANDO 52H1(DE2) OP
[P2] Contact Output 8 Seal-In	OFF
[P2] Contact Output 8 Events	Enabled
[P4] Contact Output 10 ID	TRIP_TDD_EDE
[P4] Contact Output 10 Operate	TX2_TDD On (VO10)
[P4] Contact Output 10 Seal-In	OFF
[P4] Contact Output 10 Events	Enabled
[U1] Contact Output 13 ID	CE 52C2 SCAD
[U1] Contact Output 13 Operate	CERRADO 52C2(DE3) OP
[U1] Contact Output 13 Seal-In	OFF
[U1] Contact Output 13 Events	Enabled
[U2] Contact Output 14 ID	AB 52C2 EDAC
[U2] Contact Output 14 Operate	AB 52C2 EDAC On (VO6)
[U2] Contact Output 14 Seal-In	OFF
[U2] Contact Output 14 Events	Enabled

VIRTUAL OUTPUTS

Virtual Output 1 ID	TRIP 52H1
---------------------	-----------

QUICK CONNECT

QUICK CONNECT DEVICE

DEVICE DEFINITION

ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N

VERSION: 3.4X

DESCRIPTION: (NONE)

INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502

VIRTUAL OUTPUTS (continued from last page)

Virtual Output 1 Events	Enabled
Virtual Output 2 ID	OSILOGRAFIA
Virtual Output 2 Events	Enabled
Virtual Output 3 ID	SECAL 27
Virtual Output 3 Events	Enabled
Virtual Output 6 ID	AB 52C2 EDAC
Virtual Output 6 Events	Disabled
Virtual Output 10 ID	TX2_TDD
Virtual Output 10 Events	Enabled
Virtual Output 11 ID	EDAC ESC1
Virtual Output 11 Events	Enabled
Virtual Output 12 ID	EDAC ESC2
Virtual Output 12 Events	Enabled
Virtual Output 13 ID	EDAC ESC3
Virtual Output 13 Events	Enabled
Virtual Output 14 ID	EDAC ESC4
Virtual Output 14 Events	Enabled
Virtual Output 15 ID	EDAC ESC5
Virtual Output 15 Events	Enabled
Virtual Output 16 ID	EDAC ESC6
Virtual Output 16 Events	Enabled
Virtual Output 35 ID	AL_SF6_H1
Virtual Output 35 Events	Enabled
Virtual Output 36 ID	AL_BLQ_SF6H1
Virtual Output 36 Events	Enabled
Virtual Output 37 ID	AL_TM_C&M_H1
Virtual Output 37 Events	Enabled
Virtual Output 38 ID	AL_RESDDES_H1
Virtual Output 38 Events	Enabled
Virtual Output 39 ID	ST_REM_H1
Virtual Output 39 Events	Enabled
Virtual Output 40 ID	AL_CB_FALLA
Virtual Output 40 Events	Enabled
Virtual Output 41 ID	AL_CB_PTIERR
Virtual Output 41 Events	Enabled
Virtual Output 43 ID	ST_89H1_AB
Virtual Output 43 Events	Enabled
Virtual Output 44 ID	ST_89H1_CE
Virtual Output 44 Events	Enabled
Virtual Output 47 ID	AL_TM_TP ME
Virtual Output 47 Events	Enabled
Virtual Output 48 ID	AL_TM_TP PRO
Virtual Output 48 Events	Enabled
Virtual Output 49 ID	AL_AP_52H1
Virtual Output 49 Events	Enabled
Virtual Output 50 ID	AL_TRIP_H1
Virtual Output 50 Events	Enabled
Virtual Output 51 ID	AL_EDAC.TP.F
Virtual Output 51 Events	Enabled
Virtual Output 52 ID	AL_ESC.ACTIV
Virtual Output 52 Events	Enabled
Virtual Output 53 ID	AL_27/59P
Virtual Output 53 Events	Enabled

REMOTE DEVICES

Remote Device 1 ID	Remote Device 1
Remote Device 2 ID	Remote Device 2
Remote Device 3 ID	Remote Device 3
Remote Device 4 ID	Remote Device 4
Remote Device 5 ID	Remote Device 5
Remote Device 6 ID	Remote Device 6
Remote Device 7 ID	Remote Device 7
Remote Device 8 ID	Remote Device 8
Remote Device 9 ID	Remote Device 9
Remote Device 10 ID	Remote Device 10
Remote Device 11 ID	Remote Device 11
Remote Device 12 ID	Remote Device 12
Remote Device 13 ID	Remote Device 13
Remote Device 14 ID	Remote Device 14
Remote Device 15 ID	Remote Device 15

**QUICK CONNECT**

**QUICK CONNECT DEVICE**

**DEVICE DEFINITION**

**ORDER CODE: F60-D00-HCH-F8A-H6B-P6B-U6N**

**VERSION: 3.4X**

**DESCRIPTION: (NONE)**

**INTERFACE: IP:192.0.12.50 | ADDR:4 | PORT: 502**

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**REMOTE DEVICES** (continued from last page)

Remote Device 16 ID

Remote Device 16





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'40", -70°29'57", 771.8m**  
**05/08/2023 18:16:58**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'39" , -70°29'57" , 806.3m**  
**05/08/2023 18:15:43**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28°44'47", -70°29'58", 825.6m**

**05/08/2023 18:22:11**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'38" , -70°29'57" , 790.9m**  
**05/08/2023 18:17:14**



7091

LA\_EDEN\_ALTO\_DEL\_CARMEN  
-28°45'22", -70°29'4"  
05/08/2023 18:21:40



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28°44'39", -70°29'57", 806.3m**

**05/08/2023 18:15:57**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48" , -70°29'58" , 822.6m**  
**05/08/2023 18:22:30**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'47" , -70°29'58" , 811.6m**  
**05/08/2023 18:21:50**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'47" , -70°29'58" , 815.0m**  
**05/08/2023 18:21:59**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28°44'37", -70°29'58", 827.2m**

**05/08/2023 18:09:21**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**05/08/2023 18:14:42**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48", -70°29'58", 819.8m**  
**05/08/2023 18:22:41**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48" , -70°29'58" , 822.9m**  
**05/08/2023 18:22:25**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'39" , -70°29'57" , 806.0m**  
**05/08/2023 18:15:28**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'44", -70°29'55", 787.9m**  
**05/08/2023 17:57:42**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48", -70°29'53", 788.5m**  
**05/08/2023 17:55:33**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28° 44' 48" , -70° 29' 55" ; 797.4m**

**05/08/2023 17:53:46**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**05/08/2023 18:14:39**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'47", -70°29'58", 824.4m**  
**05/08/2023 18:22:08**



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'38", -70°29'56", 802.7m**  
**05/08/2023 18:14:52**



LA\_EDEN\_ALTO\_DEL\_CARMEN  
-28°44'37", -70°29'59", 792.2m  
05/08/2023 18:10:43





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'59" , 769.0m**  
**05/08/2023 18:10:36**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'36", -70°29'58", 836.2m**  
**05/08/2023 18:10:35**









**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37", -70°29'58", 828.8m**  
**05/08/2023 18:08:42**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'59" , 7777.2m**  
**05/08/2023 18:10:40**



W050504

LA\_EDEN\_ALTO\_DEL\_CARMEN  
-28°44'37" , -70°29'58" , 827.2m  
05/08/2023 18:09:18



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'58" , 828.8m**  
**05/08/2023 18:09:06**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**05/08/2023 18:16:53**



S/E 4816

30 KVA

LA\_EDEN\_ALTO\_DEL\_CARMEN  
-28°44'48", -70°29'55", 797.5m  
05/08/2023 17:53:10





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'58" , 828.8m**  
**05/08/2023 18:08:37**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'58" , 828.8m**  
**05/08/2023 18:09:02**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'44", -70°29'55", 794.0m**  
**05/08/2023 17:57:51**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'58" , 831.9m**  
**05/08/2023 18:08:01**



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28° 44'44" , -70° 29'55" , 794.4m**  
**05/08/2023 17:58:12**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'39" , -70°29'57" , 804.2m**  
**05/08/2023 18:15:16**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'44", -70°29'55", 794.0m**  
**05/08/2023 17:57:57**



3302

LA\_EDEN\_ALTO\_DEL\_CARMEN  
05/08/2023 18:07:51



**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'58" , 828.7m**  
**05/08/2023 18:08:28**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48", -70°29'54", 787.8m**  
**05/08/2023 17:54:48**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28°44'48", -70°29'55", 797.4m**

**05/08/2023 17:54:04**





FALLA\_EDEN\_ALTO\_DEL\_CARMEN

-28°44'48", -70°29'53", 788.5m

05/08/2023 17:55:36





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**05/08/2023 18:16:51**



LA\_EDEN\_ALTO\_DEL\_CARMEN  
-28°44'48", -70°29'55", 797.5m  
05/08/2023 17:53:17





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48", -70°29'55", 797.4m**  
**05/08/2023 17:53:59**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28° 44'48" , -70° 29'54" , 790.8m**  
**05/08/2023 17:54:32**





609

12

92

11



PELIGRO

LA\_EDEN\_ALTO\_DEL\_CARMEN

-28°44'48", -70°29'55", 797.4m

05/08/2023 17:53:51





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**05/08/2023 18:14:45**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'47", -70°29'55", 797.3m**  
**05/08/2023 17:52:59**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48" , -70°29'54" , 791.0m**  
**05/08/2023 17:54:28**



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'44", -70°29'55", 794.0m**  
**05/08/2023 17:58:01**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28°44'21", -70°30'2", 798.3m**

**05/08/2023 17:46:56**



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28°44'21", -70°30'2", 800.3m**

**05/08/2023 17:47:03**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'48" , -70°29'55" , 797.5m**  
**05/08/2023 17:53:14**



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'21", -70°30'3", 768.5m**  
**05/08/2023 17:46:31**



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**05/08/2023 17:46:24**





**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**

**-28°44'48", -70°29'54", 788.5m**

**05/08/2023 17:54:56**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'37" , -70°29'58" , 828.8m**  
**05/08/2023 18:08:59**



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**05/08/2023 17:46:29**





**LA\_EDEN\_ALTO\_DEL\_CARMEN**  
**05/08/2023 17:46:18**



**FALLA\_EDEN\_ALTO\_DEL\_CARMEN**  
**-28°44'21", -70°30'2", 780.9m**  
**05/08/2023 17:46:34**



1505

LA\_EDEN\_ALTO\_DEL\_CARMEN  
05/08/2023 17:46:03

PMG Hidroeléctrica Río Huasco	
Informe: IF003232/2023	Fecha de falla 05 de Agosto 2023

## 1. CAUSA Y ORIGEN DE LA FALLA

### 1.1. Fecha y hora de la Falla:

Fecha	05 de Agosto 2023	
Hora	14:13 hrs (Hora real)	18:13 (UTC-0)

### 1.2. Localización de falla

Se desconecta central Hidroeléctrica Río Huasco, por falla en línea de 110 kV, Tap El Eden – Alto del Carmen.

### 1.3. Causa de la falla

Despacho CEN informa falla en línea 110 kV Tap El Eden – Alto del Carmen, por corte de conductor en línea MT.

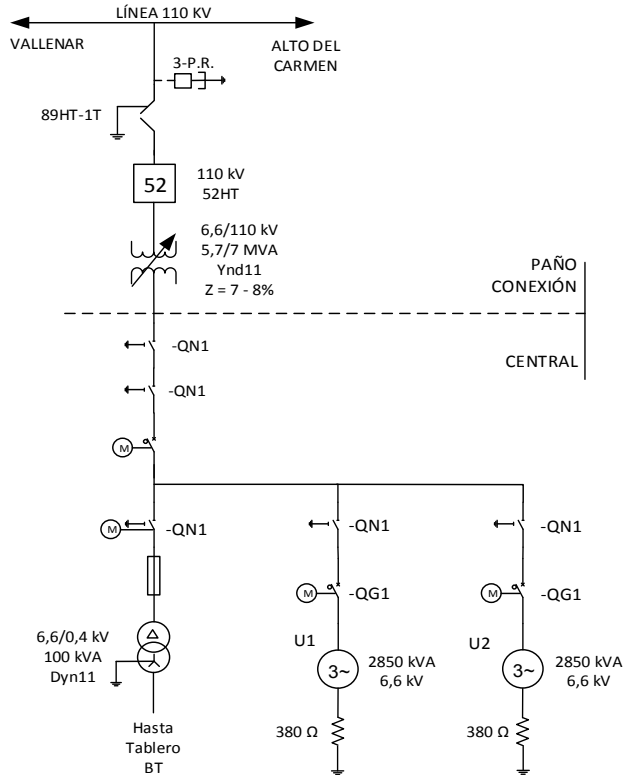
Operan los Relés de protección T60 y D60 de la SSEE Río Huasco, produciendo la apertura del Interruptor 52HT.

### 1.4. Comuna donde se originó la falla

Vallenar

## 2. INSTALACIONES AFECTADAS

Se desconecta central Hidroeléctrica con apertura del Interruptor 52HT en la SSEE Río Huasco, debido a falla en línea de 110 kV Tap El Eden – Alto del Carmen, por corte de conductor en línea de MT.

**PMG Hidroeléctrica Río Huasco**
**Informe: IF003232/2023**
**Fecha de falla 05 de Agosto 2023**
**3. DIAGRAMAS SIMPLIFICADOS**

**4. Pérdidas de generación**

Pérdida de generación en la central Río Huasco correspondiente a 0.65 MW

**5. Pérdida de consumos**

No hay consumos afectados por la Hidroeléctrica Río Huasco S.A.

**6. Cronología de eventos y descripción de causas**

Central y/o SSEE	Evento	Fecha	Hora Real	UTC-0
SSEE Río Huasco	Apertura Interruptor 52HT	05/08/2023	14:13 hrs	18:13 hrs
SSEE Río Huasco	Cierre Interruptor 52HT	05/08/2023	17:52 hrs	21:52 hrs

PMG Hidroeléctrica Río Huasco

Informe: IF003232/2023

Fecha de falla 05 de Agosto 2023

**6.1. Comentarios y Observaciones**

Una vez normalizada la tensión en la red y dada la autorización de conexión por parte del Despacho CEN, se normaliza y sincroniza la central sin inconvenientes.

**1. Esquema de protección y control involucrados en la falla**

- Operan relés de protección T60 y D60 de la SSEE Rio Huasco

**2. Acciones correctivas a corto plazo****3. Acciones correctivas a largo plazo**

No Aplica

**4. Conclusiones**

Relés de protección operan de acuerdo a lo esperado

**5. Análisis conjunto**



Site Event Recorder // CENTRAL RÍO HUASCO

#,Device,Event Number,Time Stamp,Cause

1, C60, 663, Aug 05 2023 18:14:12.706269, CB1\_RESFLT Off  
2, T60, 3595951, Aug 05 2023 18:14:12.705370, CB1\_RESFLT Off  
3, T60, 3595950, Aug 05 2023 18:14:11.854098, T1\_IMGTRMIK Off  
4, C60, 662, Aug 05 2023 18:14:09.666225, CB2\_RESFLT Off  
5, T60, 3595949, Aug 05 2023 18:14:09.665324, CB2\_RESFLT Off  
6, C60, 661, Aug 05 2023 18:14:04.871149, CB1\_RESFLT On  
7, T60, 3595948, Aug 05 2023 18:14:04.870274, CB1\_RESFLT On  
8, C60, 660, Aug 05 2023 18:14:02.666121, CB1\_RESFLT Off  
9, T60, 3595947, Aug 05 2023 18:14:02.665253, CB1\_RESFLT Off  
10, T60, 3595946, Aug 05 2023 18:13:58.207350, T1\_IMGTRMIK On  
11, C60, 659, Aug 05 2023 18:13:54.651004, CB2\_RESFLT On  
12, T60, 3595945, Aug 05 2023 18:13:54.650172, CB2\_RESFLT On  
13, C60, 658, Aug 05 2023 18:13:53.788495, CB1\_RESFLT On  
14, T60, 3595944, Aug 05 2023 18:13:53.787675, CB1\_RESFLT On  
15, C60, 657, Aug 05 2023 18:13:51.888457, CB2\_RESFLT Off  
16, T60, 3595943, Aug 05 2023 18:13:51.887641, CB2\_RESFLT Off  
17, T60, 3595942, Aug 05 2023 18:13:51.599527, T1\_IMGTRMIK Off  
18, T60, 3595941, Aug 05 2023 18:13:50.914327, T1\_IMGTRMIK On  
19, C60, 656, Aug 05 2023 18:13:48.361303, CB2\_RESFLT On  
20, T60, 3595940, Aug 05 2023 18:13:48.360455, CB2\_RESFLT On  
21, D60, 39493, Aug 05 2023 18:13:48.015568, PHASE TOC2 DPO C  
22, D60, 39492, Aug 05 2023 18:13:48.015568, PHASE TOC2 DPO A  
23, D60, 39491, Aug 05 2023 18:13:48.015568, PHASE TOC1 DPO C  
24, D60, 39490, Aug 05 2023 18:13:48.015568, PHASE TOC1 DPO A  
25, D60, 39489, Aug 05 2023 18:13:48.015568, GROUND TOC1 DPO  
26, T60, 3595939, Aug 05 2023 18:13:48.015559, PHASE TOC2 DPO C  
27, T60, 3595938, Aug 05 2023 18:13:48.015559, PHASE TOC2 DPO A  
28, T60, 3595937, Aug 05 2023 18:13:48.015559, PHASE TOC1 DPO C  
29, T60, 3595936, Aug 05 2023 18:13:48.015559, PHASE TOC1 DPO A  
30, T60, 3595935, Aug 05 2023 18:13:48.015559, NEUTRAL TOC1 DPO  
31, T60, 3595934, Aug 05 2023 18:13:48.015559, GROUND TOC1 DPO  
32, C60, 655, Aug 05 2023 18:13:48.008909, 891T\_27LINEA On  
33, C60, 654, Aug 05 2023 18:13:48.008909, SYNC 1 CLS OP  
34, C60, 653, Aug 05 2023 18:13:48.008909, SYNC 1 DEAD S OP  
35, D60, 39488, Aug 05 2023 18:13:48.005567, 52T\_TRIP2 Off  
36, D60, 39487, Aug 05 2023 18:13:48.005567, 52T\_TRIP1 Off  
37, D60, 39486, Aug 05 2023 18:13:48.005567, PHASE TOC2 DPO B  
38, D60, 39485, Aug 05 2023 18:13:48.005567, PHASE TOC1 DPO B  
39, D60, 39484, Aug 05 2023 18:13:48.005567, PHASE IOC1 DPO C  
40, T60, 3595933, Aug 05 2023 18:13:48.005558, RESERVA Off  
41, T60, 3595932, Aug 05 2023 18:13:48.005558, 52T\_TRIPBF1 Off  
42, T60, 3595931, Aug 05 2023 18:13:48.005558, PHASE TOC2 DPO B  
43, T60, 3595930, Aug 05 2023 18:13:48.005558, PHASE TOC1 DPO B  
44, T60, 3595929, Aug 05 2023 18:13:48.005558, PHASE IOC1 DPO C  
45, D60, 39483, Aug 05 2023 18:13:48.003069, PHASE IOC1 DPO A  
46, T60, 3595928, Aug 05 2023 18:13:48.003061, PHASE IOC1 DPO A

47, D60, 39482, Aug 05 2023 18:13:48.000569, PHASE IOC1 DPO B  
48, T60, 3595927, Aug 05 2023 18:13:48.000561, PHASE IOC1 DPO B  
49, C60, 652, Aug 05 2023 18:13:47.996394, Osc\_Trigger Off  
50, C60, 651, Aug 05 2023 18:13:47.993892, OSCILLOGRAPHY TRIG'D  
51, C60, 650, Aug 05 2023 18:13:47.993892, Osc\_Trigger On  
52, C60, 649, Aug 05 2023 18:13:47.993892, BREAKER 1 CLOSED  
53, T60, 3595926, Aug 05 2023 18:13:47.993058, OSCILLOGRAPHY TRIG'D  
54, D60, 39481, Aug 05 2023 18:13:47.990158, 52HT\_ABIERTO On  
55, T60, 3595925, Aug 05 2023 18:13:47.990005, 52T\_OP On  
<----- APERTURA INTERRUPTOR 52HT  
56, C60, 648, Aug 05 2023 18:13:47.988893, QP\_ABFD60 Off  
57, T60, 3595924, Aug 05 2023 18:13:47.988506, QP\_ABFT60 Off  
58, D60, 39480, Aug 05 2023 18:13:47.984161, QP\_ABFD60 Off  
59, T60, 3595923, Aug 05 2023 18:13:47.978072, RESERVA Off  
60, T60, 3595922, Aug 05 2023 18:13:47.978072, RESERVA Off  
61, T60, 3595921, Aug 05 2023 18:13:47.978072, TX\_ABF\_CTRAL Off  
62, T60, 3595920, Aug 05 2023 18:13:47.978072, QP\_ABFD60 Off  
63, C60, 647, Aug 05 2023 18:13:47.976391, BREAKER 1 IIA INTERM  
64, D60, 39479, Aug 05 2023 18:13:47.975572, ABF\_T60 Off  
65, T60, 3595919, Aug 05 2023 18:13:47.974005, 52T\_CL Off  
66, D60, 39478, Aug 05 2023 18:13:47.973150, 52HT\_CERRADO Off  
67, D60, 39477, Aug 05 2023 18:13:47.965579, BKR FAIL 1 TRIP OP  
68, C60, 646, Aug 05 2023 18:13:47.946386, QP\_ABFD60 On  
69, T60, 3595918, Aug 05 2023 18:13:47.945606, PHASE IOC1 OP B  
70, T60, 3595917, Aug 05 2023 18:13:47.945490, QP\_ABFT60 On  
71, T60, 3595916, Aug 05 2023 18:13:47.943109, BKR FAIL 1 TRIP OP  
72, D60, 39476, Aug 05 2023 18:13:47.943103, PHASE IOC1 OP B  
73, D60, 39475, Aug 05 2023 18:13:47.942145, QP\_ABFD60 On  
74, T60, 3595915, Aug 05 2023 18:13:47.940610, PHASE IOC1 OP A  
75, D60, 39474, Aug 05 2023 18:13:47.938111, ABF\_T60 On  
76, D60, 39473, Aug 05 2023 18:13:47.938111, PHASE IOC1 OP A  
77, T60, 3595914, Aug 05 2023 18:13:47.935617, TX\_ABF\_CTRAL On  
78, T60, 3595913, Aug 05 2023 18:13:47.935617, QP\_ABFD60 On  
79, T60, 3595912, Aug 05 2023 18:13:47.935617, RESERVA On  
80, T60, 3595911, Aug 05 2023 18:13:47.935617, 52T\_TRIPBF1 On  
81, T60, 3595910, Aug 05 2023 18:13:47.935617, PHASE IOC1 OP C  
82, D60, 39472, Aug 05 2023 18:13:47.935612, 52T\_TRIP2 On  
83, D60, 39471, Aug 05 2023 18:13:47.935612, 52T\_TRIP1 On  
84, D60, 39470, Aug 05 2023 18:13:47.935612, PHASE IOC1 OP C  
85, C60, 645, Aug 05 2023 18:13:47.786356, Osc\_Trigger Off  
86, C60, 644, Aug 05 2023 18:13:47.783854, OSCILLOGRAPHY TRIG'D  
87, C60, 643, Aug 05 2023 18:13:47.783854, Osc\_Trigger On  
88, T60, 3595909, Aug 05 2023 18:13:47.783291, OSCILLOGRAPHY TRIG'D  
89, T60, 3595908, Aug 05 2023 18:13:47.615741, PHASE TOC2 PKP C  
90, T60, 3595907, Aug 05 2023 18:13:47.615741, PHASE TOC2 PKP A  
91, T60, 3595906, Aug 05 2023 18:13:47.615741, PHASE TOC1 PKP C  
92, T60, 3595905, Aug 05 2023 18:13:47.615741, PHASE TOC1 PKP A  
93, D60, 39469, Aug 05 2023 18:13:47.615738, PHASE TOC2 PKP C  
94, D60, 39468, Aug 05 2023 18:13:47.615738, PHASE TOC2 PKP A  
95, D60, 39467, Aug 05 2023 18:13:47.615738, PHASE TOC1 PKP C

96, D60, 39466, Aug 05 2023 18:13:47.615738, PHASE TOC1 PKP A  
97, T60, 3595904, Aug 05 2023 18:13:47.613240, PHASE IOC1 PKP B  
98, D60, 39465, Aug 05 2023 18:13:47.613236, PHASE IOC1 PKP B  
99, T60, 3595903, Aug 05 2023 18:13:47.608239, PHASE IOC1 PKP A  
100, D60, 39464, Aug 05 2023 18:13:47.608236, PHASE IOC1 PKP A  
101, T60, 3595902, Aug 05 2023 18:13:47.605738, OSCILLOGRAPHY TRIG'D  
102, T60, 3595901, Aug 05 2023 18:13:47.605738, PHASE TOC2 PKP B  
103, T60, 3595900, Aug 05 2023 18:13:47.605738, PHASE TOC1 PKP B  
104, T60, 3595899, Aug 05 2023 18:13:47.605738, NEUTRAL TOC1 PKP  
105, T60, 3595898, Aug 05 2023 18:13:47.605738, GROUND TOC1 PKP  
106, T60, 3595897, Aug 05 2023 18:13:47.605738, PHASE IOC1 PKP C  
107, D60, 39463, Aug 05 2023 18:13:47.605734, PHASE TOC2 PKP B  
108, D60, 39462, Aug 05 2023 18:13:47.605734, PHASE TOC1 PKP B  
109, D60, 39461, Aug 05 2023 18:13:47.605734, GROUND TOC1 PKP  
110, D60, 39460, Aug 05 2023 18:13:47.605734, PHASE IOC1 PKP C  
111, D60, 39459, Aug 05 2023 18:13:47.598234, NTRL DIR OC1 FWD  
112, C60, 642, Aug 05 2023 18:13:47.596371, Osc\_Trigger Off  
113, T60, 3595896, Aug 05 2023 18:13:47.595739, PH DIR1 BLK B  
114, D60, 39458, Aug 05 2023 18:13:47.595735, PH DIR2 BLK B  
115, C60, 641, Aug 05 2023 18:13:47.593870, OSCILLOGRAPHY TRIG'D  
116, C60, 640, Aug 05 2023 18:13:47.593870, Osc\_Trigger On  
117, T60, 3595895, Aug 05 2023 18:13:47.593242, OSCILLOGRAPHY TRIG'D  
118, T60, 3595894, Aug 05 2023 18:13:47.593242, PH DIR1 BLK A  
119, D60, 39457, Aug 05 2023 18:13:47.593235, PH DIR2 BLK A  
120, D60, 39456, Aug 05 2023 18:13:47.593235, NTRL DIR OC1 REV  
121, C60, 639, Aug 05 2023 18:13:47.433965, Osc\_Trigger Off  
122, C60, 638, Aug 05 2023 18:13:47.431471, OSCILLOGRAPHY TRIG'D  
123, C60, 637, Aug 05 2023 18:13:47.431471, Osc\_Trigger On  
124, T60, 3595893, Aug 05 2023 18:13:47.430673, OSCILLOGRAPHY TRIG'D  
125, T60, 3595892, Aug 02 2023 19:31:10.521347, T1\_IMGTRMIK Off  
126, T60, 3595891, Aug 02 2023 19:31:06.966029, T1\_IMGTRMIK On  
127, T60, 3595890, Aug 02 2023 19:26:52.641215, T1\_IMGTRMIK Off  
128, T60, 3595889, Aug 02 2023 19:26:44.371136, T1\_IMGTRMIK On  
129, T60, 3595888, Jul 31 2023 06:56:37.468712, OSCILLOGRAPHY TRIG'D  
130, C60, 636, Jul 31 2023 06:56:37.431143, Osc\_Trigger Off  
131, C60, 635, Jul 31 2023 06:56:37.428644, OSCILLOGRAPHY TRIG'D  
132, C60, 634, Jul 31 2023 06:56:37.428644, Osc\_Trigger On  
133, D60, 39455, Jul 30 2023 16:53:27.296996, PH DIR2 BLK B  
134, T60, 3595887, Jul 30 2023 16:53:27.294511, PH DIR1 BLK B  
135, T60, 3595886, Jul 30 2023 16:53:27.147087, PH DIR1 BLK A  
136, D60, 39454, Jul 30 2023 16:53:27.144588, PH DIR2 BLK B  
137, T60, 3595885, Jul 30 2023 16:53:27.134590, PH DIR1 BLK B  
138, D60, 39453, Jul 30 2023 16:53:26.987179, PH DIR2 BLK B  
139, T60, 3595884, Jul 30 2023 16:53:26.979692, PH DIR1 BLK B  
140, T60, 3595883, Jul 30 2023 16:53:26.914730, PH DIR1 BLK B  
141, D60, 39452, Jul 30 2023 16:53:26.914722, PH DIR2 BLK B  
142, D60, 39451, Jul 30 2023 12:31:20.668053, PH DIR2 BLK B  
143, D60, 39450, Jul 30 2023 12:31:15.625374, PH DIR2 BLK B  
144, T60, 3595882, Jul 30 2023 12:31:14.141102, PH DIR1 BLK B  
145, D60, 39449, Jul 30 2023 12:31:12.398876, PH DIR2 BLK B

146, T60, 3595881, Jul 30 2023 12:31:12.391362, PH DIR1 BLK B  
147, D60, 39448, Jul 30 2023 06:12:38.805408, PH DIR2 BLK C  
148, D60, 39447, Jul 30 2023 06:12:38.805408, PH DIR2 BLK B  
149, T60, 3595880, Jul 30 2023 06:12:38.804703, OSCILLOGRAPHY TRIG'D  
150, T60, 3595879, Jul 30 2023 06:12:38.804703, PH DIR1 BLK C  
151, T60, 3595878, Jul 30 2023 06:12:38.804703, PH DIR1 BLK B  
152, D60, 39446, Jul 30 2023 06:12:38.802913, PH DIR2 BLK A  
153, T60, 3595877, Jul 30 2023 06:12:38.802208, PH DIR1 BLK A  
154, C60, 633, Jul 30 2023 06:12:38.800367, Osc\_Trigger Off  
155, C60, 632, Jul 30 2023 06:12:38.797871, OSCILLOGRAPHY TRIG'D  
156, C60, 631, Jul 30 2023 06:12:38.797871, Osc\_Trigger On  
157, D60, 39445, Jul 26 2023 17:40:20.745443, RESET OP(PUSHBUTTON)  
158, C60, 630, Jul 24 2023 22:12:13.189204, CB1\_RESFLT Off  
159, T60, 3595876, Jul 24 2023 22:12:13.188361, CB1\_RESFLT Off  
160, T60, 3595875, Jul 24 2023 22:12:12.391102, T1\_IMGTRMIK Off  
161, C60, 629, Jul 24 2023 22:12:10.055750, CB2\_RESFLT Off  
162, T60, 3595874, Jul 24 2023 22:12:10.054906, CB2\_RESFLT Off  
163, T60, 3595873, Jul 24 2023 22:12:02.704129, PH DIR1 BLK C  
164, D60, 39444, Jul 24 2023 22:12:02.704121, PH DIR2 BLK C  
165, T60, 3595872, Jul 24 2023 22:12:02.681689, PH DIR1 BLK A  
166, D60, 39443, Jul 24 2023 22:12:02.681684, PH DIR2 BLK A  
167, C60, 628, Jul 24 2023 22:12:02.665139, Osc\_Trigger Off  
168, C60, 627, Jul 24 2023 22:12:02.662643, OSCILLOGRAPHY TRIG'D  
169, C60, 626, Jul 24 2023 22:12:02.662643, Osc\_Trigger On  
170, T60, 3595871, Jul 24 2023 22:12:02.661749, OSCILLOGRAPHY TRIG'D  
171, T60, 3595870, Jul 24 2023 22:12:02.644305, PH DIR1 BLK B  
172, D60, 39442, Jul 24 2023 22:12:02.644299, PH DIR2 BLK B  
173, C60, 625, Jul 24 2023 22:12:01.512907, CB1\_RESFLT On  
174, T60, 3595869, Jul 24 2023 22:12:01.512081, CB1\_RESFLT On  
175, T60, 3595868, Jul 24 2023 22:12:01.074440, T1\_IMGTRMIK On  
176, C60, 624, Jul 24 2023 22:12:00.063993, CB2\_RESFLT On  
177, T60, 3595867, Jul 24 2023 22:12:00.063149, CB2\_RESFLT On  
178, D60, 39441, Jul 24 2023 22:10:58.822980, PHASE TOC2 DPO A  
179, D60, 39440, Jul 24 2023 22:10:58.822980, PHASE TOC1 DPO A  
180, T60, 3595866, Jul 24 2023 22:10:58.822483, PHASE TOC2 DPO A  
181, T60, 3595865, Jul 24 2023 22:10:58.822483, PHASE TOC1 DPO A  
182, D60, 39439, Jul 24 2023 22:10:58.753027, PHASE TOC2 DPO C  
183, D60, 39438, Jul 24 2023 22:10:58.753027, PHASE TOC1 DPO C  
184, T60, 3595864, Jul 24 2023 22:10:58.752522, PHASE TOC2 DPO C  
185, T60, 3595863, Jul 24 2023 22:10:58.752522, PHASE TOC1 DPO C  
186, D60, 39437, Jul 24 2023 22:10:58.715547, PH DIR2 BLK B  
187, T60, 3595862, Jul 24 2023 22:10:58.715036, PH DIR1 BLK B  
188, D60, 39436, Jul 24 2023 22:10:58.713047, PHASE TOC2 PKP C  
189, D60, 39435, Jul 24 2023 22:10:58.713047, PHASE TOC1 PKP C  
190, D60, 39434, Jul 24 2023 22:10:58.713047, GROUND TOC1 DPO  
191, D60, 39433, Jul 24 2023 22:10:58.713047, PH DIR2 BLK C  
192, D60, 39432, Jul 24 2023 22:10:58.713047, PH DIR2 BLK A  
193, T60, 3595861, Jul 24 2023 22:10:58.712534, PHASE TOC2 PKP C  
194, T60, 3595860, Jul 24 2023 22:10:58.712534, PHASE TOC1 PKP C  
195, T60, 3595859, Jul 24 2023 22:10:58.712534, NEUTRAL TOC1 DPO



196, T60, 3595858, Jul 24 2023 22:10:58.712534, GROUND TOC1 DPO  
197, T60, 3595857, Jul 24 2023 22:10:58.712534, PH DIR1 BLK C  
198, T60, 3595856, Jul 24 2023 22:10:58.712534, PH DIR1 BLK A  
199, D60, 39431, Jul 24 2023 22:10:58.703052, PHASE TOC2 PKP A  
200, D60, 39430, Jul 24 2023 22:10:58.703052, PHASE TOC1 PKP A  
201, D60, 39429, Jul 24 2023 22:10:58.703052, GROUND TOC1 PKP  
202, T60, 3595855, Jul 24 2023 22:10:58.702527, OSCILLOGRAPHY TRIG'D  
203, T60, 3595854, Jul 24 2023 22:10:58.702527, PHASE TOC2 PKP A  
204, T60, 3595853, Jul 24 2023 22:10:58.702527, PHASE TOC1 PKP A  
205, T60, 3595852, Jul 24 2023 22:10:58.702527, NEUTRAL TOC1 PKP  
206, T60, 3595851, Jul 24 2023 22:10:58.702527, GROUND TOC1 PKP  
207, T60, 3595850, Jul 24 2023 22:10:58.695028, OSCILLOGRAPHY TRIG'D  
208, T60, 3595849, Jul 24 2023 22:10:58.695028, XFMR PCNT DIFF PKP C  
209, C60, 623, Jul 24 2023 22:10:58.690123, 891T\_27LINEA Off  
210, C60, 622, Jul 24 2023 22:10:58.690123, SYNC 1 CLS DPO  
211, C60, 621, Jul 24 2023 22:10:58.690123, SYNC 1 DEAD S DPO  
212, T60, 3595848, Jul 24 2023 22:10:58.690027, OSCILLOGRAPHY TRIG'D  
213, T60, 3595847, Jul 24 2023 22:10:58.690027, XFMR PCNT DIFF PKP B  
214, T60, 3595846, Jul 24 2023 22:10:58.690027, XFMR PCNT DIFF PKP A  
215, C60, 620, Jul 24 2023 22:10:58.687623, Osc\_Trigger Off  
216, C60, 619, Jul 24 2023 22:10:58.685124, OSCILLOGRAPHY TRIG'D  
217, C60, 618, Jul 24 2023 22:10:58.685124, Osc\_Trigger On  
218, T60, 3595845, Jul 24 2023 22:10:58.685028, OSCILLOGRAPHY TRIG'D  
219, C60, 617, Jul 23 2023 19:38:04.496798, CB1\_RESFLT Off  
220, T60, 3595844, Jul 23 2023 19:38:04.495239, CB1\_RESFLT Off  
221, T60, 3595843, Jul 23 2023 19:38:03.623310, T1\_IMGTRMIK Off  
222, C60, 616, Jul 23 2023 19:38:01.039255, CB2\_RESFLT Off  
223, T60, 3595842, Jul 23 2023 19:38:01.037708, CB2\_RESFLT Off  
224, C60, 615, Jul 23 2023 19:37:56.654178, CB1\_RESFLT On  
225, T60, 3595841, Jul 23 2023 19:37:56.652657, CB1\_RESFLT On  
226, C60, 614, Jul 23 2023 19:37:20.883635, CB1\_RESFLT Off  
227, T60, 3595840, Jul 23 2023 19:37:20.882295, CB1\_RESFLT Off  
228, T60, 3595839, Jul 23 2023 19:37:16.418289, T1\_IMGTRMIK On  
229, C60, 613, Jul 23 2023 19:37:14.761044, CB1\_RESFLT On  
230, T60, 3595838, Jul 23 2023 19:37:14.759734, CB1\_RESFLT On  
231, C60, 612, Jul 23 2023 19:37:13.958530, CB2\_RESFLT On  
232, T60, 3595837, Jul 23 2023 19:37:13.957224, CB2\_RESFLT On  
233, T60, 3595832, Jul 23 2023 15:19:37.340235, CB1\_RESFLT Off  
234, C60, 608, Jul 23 2023 15:19:37.313807, CB1\_RESFLT Off  
235, T60, 3595831, Jul 23 2023 15:19:36.573977, OSCILLOGRAPHY TRIG'D  
236, C60, 607, Jul 23 2023 15:19:36.568601, 891T\_27LINEA On  
237, C60, 606, Jul 23 2023 15:19:36.568601, SYNC 1 CLS OP  
238, C60, 605, Jul 23 2023 15:19:36.568601, SYNC 1 DEAD S OP  
239, C60, 604, Jul 23 2023 15:19:36.552040, Osc\_Trigger Off  
240, C60, 603, Jul 23 2023 15:19:36.549280, OSCILLOGRAPHY TRIG'D  
241, C60, 602, Jul 23 2023 15:19:36.549280, Osc\_Trigger On  
242, T60, 3595830, Jul 23 2023 15:19:33.024038, CB2\_RESFLT On  
243, C60, 601, Jul 23 2023 15:19:32.998160, CB2\_RESFLT On  
244, T60, 3595829, Jul 23 2023 15:19:32.984275, CB1\_RESFLT On  
245, C60, 600, Jul 23 2023 15:19:32.958437, CB1\_RESFLT On

246, T60, 3595828, Jul 23 2023 15:19:32.918897, T1\_IMGTRMIK On  
247, T60, 3595827, Jul 23 2023 15:19:31.421456, PH DIR1 BLK B  
248, T60, 3595826, Jul 23 2023 15:19:31.408957, PH DIR1 BLK A  
249, D60, 39428, Jul 23 2023 15:19:31.398371, PH DIR2 BLK B  
250, T60, 3595825, Jul 23 2023 15:19:31.391454, PHASE TOC2 DPO A  
251, T60, 3595824, Jul 23 2023 15:19:31.391454, PHASE TOC1 DPO A  
252, T60, 3595823, Jul 23 2023 15:19:31.386452, PH DIR1 BLK C  
253, D60, 39427, Jul 23 2023 15:19:31.385874, PH DIR2 BLK A  
254, D60, 39426, Jul 23 2023 15:19:31.368372, PHASE TOC2 DPO A  
255, D60, 39425, Jul 23 2023 15:19:31.368372, PHASE TOC1 DPO A  
256, D60, 39424, Jul 23 2023 15:19:31.363371, PH DIR2 BLK C  
257, T60, 3595822, Jul 23 2023 15:19:31.361453, PHASE TOC2 DPO B  
258, T60, 3595821, Jul 23 2023 15:19:31.361453, PHASE TOC1 DPO B  
259, D60, 39423, Jul 23 2023 15:19:31.338368, PHASE TOC2 DPO B  
260, D60, 39422, Jul 23 2023 15:19:31.338368, PHASE TOC1 DPO B  
261, T60, 3595820, Jul 23 2023 15:19:31.261429, PHASE TOC2 PKP A  
262, T60, 3595819, Jul 23 2023 15:19:31.261429, PHASE TOC1 PKP A  
263, T60, 3595818, Jul 23 2023 15:19:31.246426, OSCILLOGRAPHY TRIG'D  
264, D60, 39421, Jul 23 2023 15:19:31.238357, PHASE TOC2 PKP A  
265, D60, 39420, Jul 23 2023 15:19:31.238357, PHASE TOC1 PKP A  
266, C60, 599, Jul 23 2023 15:19:31.220501, Osc\_Trigger Off  
267, C60, 598, Jul 23 2023 15:19:31.218000, OSCILLOGRAPHY TRIG'D  
268, C60, 597, Jul 23 2023 15:19:31.218000, Osc\_Trigger On  
269, T60, 3595817, Jul 23 2023 15:19:31.021381, PHASE TOC2 DPO A  
270, T60, 3595816, Jul 23 2023 15:19:31.021381, PHASE TOC1 DPO A  
271, D60, 39419, Jul 23 2023 15:19:30.998308, PHASE TOC2 DPO A  
272, D60, 39418, Jul 23 2023 15:19:30.998308, PHASE TOC1 DPO A  
273, T60, 3595815, Jul 23 2023 15:19:30.871326, PHASE TOC2 PKP A  
274, T60, 3595814, Jul 23 2023 15:19:30.871326, PHASE TOC1 PKP A  
275, T60, 3595813, Jul 23 2023 15:19:30.861322, OSCILLOGRAPHY TRIG'D  
276, T60, 3595812, Jul 23 2023 15:19:30.861322, PHASE TOC2 PKP B  
277, T60, 3595811, Jul 23 2023 15:19:30.861322, PHASE TOC1 PKP B  
278, T60, 3595810, Jul 23 2023 15:19:30.851329, PH DIR1 BLK C  
279, D60, 39417, Jul 23 2023 15:19:30.848234, PHASE TOC2 PKP A  
280, D60, 39416, Jul 23 2023 15:19:30.848234, PHASE TOC1 PKP A  
281, T60, 3595809, Jul 23 2023 15:19:30.838835, OSCILLOGRAPHY TRIG'D  
282, D60, 39415, Jul 23 2023 15:19:30.838229, PHASE TOC2 PKP B  
283, D60, 39414, Jul 23 2023 15:19:30.838229, PHASE TOC1 PKP B  
284, D60, 39413, Jul 23 2023 15:19:30.828233, PH DIR2 BLK C  
285, C60, 596, Jul 23 2023 15:19:30.812670, Osc\_Trigger Off  
286, C60, 595, Jul 23 2023 15:19:30.810170, OSCILLOGRAPHY TRIG'D  
287, C60, 594, Jul 23 2023 15:19:30.810170, Osc\_Trigger On  
288, C60, 611, Jul 23 2023 14:19:54.881269, CB1\_RESFLT Off  
289, T60, 3595836, Jul 23 2023 14:19:54.879202, CB1\_RESFLT Off  
290, T60, 3595835, Jul 23 2023 14:19:54.010440, T1\_IMGTRMIK Off  
291, C60, 610, Jul 23 2023 14:19:51.086223, CB2\_RESFLT Off  
292, T60, 3595834, Jul 23 2023 14:19:51.084155, CB2\_RESFLT Off  
293, C60, 609, Jul 23 2023 14:19:47.043662, CB1\_RESFLT On  
294, T60, 3595833, Jul 23 2023 14:19:47.041616, CB1\_RESFLT On  
295, T60, 3595808, Jul 23 2023 14:02:24.332615, PH DIR1 BLK A

296, T60, 3595807, Jul 23 2023 14:02:24.252569, PH DIR1 BLK A  
297, T60, 3595806, Jul 23 2023 14:02:23.424593, PH DIR1 BLK A  
298, T60, 3595805, Jul 23 2023 14:02:23.181965, PH DIR1 BLK A  
299, T60, 3595804, Jul 23 2023 14:02:23.109438, PH DIR1 BLK A  
300, T60, 3595803, Jul 23 2023 14:02:23.041909, PH DIR1 BLK A  
301, T60, 3595802, Jul 23 2023 14:02:22.821818, PH DIR1 BLK A  
302, T60, 3595801, Jul 23 2023 14:02:22.621767, PH DIR1 BLK A  
303, T60, 3595800, Jul 23 2023 14:02:22.556736, PH DIR1 BLK A  
304, T60, 3595799, Jul 23 2023 14:02:22.251668, PH DIR1 BLK A  
305, T60, 3595798, Jul 23 2023 14:02:22.194157, PH DIR1 BLK A  
306, T60, 3595797, Jul 23 2023 14:02:22.044125, PH DIR1 BLK A  
307, T60, 3595796, Jul 23 2023 14:02:21.964099, PH DIR1 BLK A  
308, T60, 3595795, Jul 23 2023 14:02:21.916588, PH DIR1 BLK A  
309, D60, 39412, Jul 23 2023 14:02:21.791577, PH DIR2 BLK A  
310, T60, 3595794, Jul 23 2023 14:02:21.754079, PH DIR1 BLK A  
311, D60, 39411, Jul 23 2023 14:02:21.646565, PH DIR2 BLK A  
312, T60, 3595793, Jul 23 2023 14:02:21.639068, PH DIR1 BLK A  
313, T60, 3595792, Jul 23 2023 14:02:21.564059, PH DIR1 BLK A  
314, T60, 3595791, Jul 23 2023 14:02:21.481548, PH DIR1 BLK A  
315, T60, 3595790, Jul 23 2023 14:02:21.411537, PH DIR1 BLK A  
316, T60, 3595789, Jul 23 2023 14:02:21.264012, PH DIR1 BLK A  
317, D60, 39410, Jul 23 2023 14:02:21.229002, PH DIR2 BLK A  
318, T60, 3595788, Jul 23 2023 14:02:21.203996, PH DIR1 BLK A  
319, D60, 39409, Jul 23 2023 14:02:21.003955, PH DIR2 BLK A  
320, T60, 3595787, Jul 23 2023 14:02:20.993940, PH DIR1 BLK A  
321, D60, 39408, Jul 23 2023 14:02:20.941420, PH DIR2 BLK A  
322, T60, 3595786, Jul 23 2023 14:02:20.926423, PH DIR1 BLK A  
323, D60, 39407, Jul 23 2023 14:02:20.868907, PH DIR2 BLK A  
324, T60, 3595785, Jul 23 2023 14:02:20.843908, PH DIR1 BLK A  
325, D60, 39406, Jul 23 2023 14:02:20.776386, PH DIR2 BLK A  
326, T60, 3595784, Jul 23 2023 14:02:20.731382, PH DIR1 BLK A  
327, D60, 39405, Jul 23 2023 14:02:20.658855, PH DIR2 BLK A  
328, T60, 3595783, Jul 23 2023 14:02:20.623858, PH DIR1 BLK A  
329, T60, 3595782, Jul 23 2023 14:02:20.431303, PH DIR1 BLK A  
330, T60, 3595781, Jul 23 2023 14:02:20.361286, PH DIR1 BLK A  
331, T60, 3595780, Jul 23 2023 14:02:20.281262, PH DIR1 BLK A  
332, T60, 3595779, Jul 23 2023 14:02:20.211244, PH DIR1 BLK A  
333, D60, 39404, Jul 23 2023 14:02:20.148729, PH DIR2 BLK A  
334, T60, 3595778, Jul 23 2023 14:02:20.133722, PH DIR1 BLK A  
335, D60, 39403, Jul 23 2023 14:02:19.861122, PH DIR2 BLK A  
336, T60, 3595777, Jul 23 2023 14:02:19.768605, PH DIR1 BLK A  
337, T60, 3595776, Jul 23 2023 14:02:19.698583, PH DIR1 BLK A  
338, D60, 39402, Jul 23 2023 14:02:19.671069, PH DIR2 BLK A  
339, T60, 3595775, Jul 23 2023 14:02:19.636067, PH DIR1 BLK A  
340, D60, 39401, Jul 23 2023 14:02:19.588548, PH DIR2 BLK A  
341, T60, 3595774, Jul 23 2023 14:02:19.576057, PH DIR1 BLK A  
342, T60, 3595773, Jul 23 2023 14:02:19.533540, PH DIR1 BLK B  
343, T60, 3595772, Jul 23 2023 14:02:19.436007, PH DIR1 BLK A  
344, T60, 3595771, Jul 23 2023 14:02:19.423501, PH DIR1 BLK A  
345, T60, 3595770, Jul 23 2023 14:02:19.365986, PH DIR1 BLK A

346, D60, 39400, Jul 23 2023 14:02:19.250942, PH DIR2 BLK A  
347, T60, 3595769, Jul 23 2023 14:02:19.220932, PH DIR1 BLK A  
348, T60, 3595768, Jul 23 2023 14:02:19.163409, PH DIR1 BLK A  
349, D60, 39399, Jul 23 2023 14:02:19.105891, PH DIR2 BLK A  
350, T60, 3595767, Jul 23 2023 14:02:19.080888, PH DIR1 BLK A  
351, D60, 39398, Jul 23 2023 14:02:19.038379, PH DIR2 BLK A  
352, T60, 3595766, Jul 23 2023 14:02:19.010870, PH DIR1 BLK A  
353, T60, 3595765, Jul 23 2023 14:02:18.943338, PH DIR1 BLK A  
354, T60, 3595764, Jul 23 2023 14:02:18.933335, PH DIR1 BLK A  
355, T60, 3595763, Jul 23 2023 14:02:18.810788, PH DIR1 BLK A  
356, T60, 3595762, Jul 23 2023 14:02:18.733264, PH DIR1 BLK A  
357, T60, 3595761, Jul 23 2023 14:02:18.653236, PH DIR1 BLK A  
358, T60, 3595760, Jul 23 2023 14:02:18.605721, PH DIR1 BLK A  
359, D60, 39397, Jul 23 2023 14:02:18.535691, PH DIR2 BLK A  
360, T60, 3595759, Jul 23 2023 14:02:18.513186, PH DIR1 BLK A  
361, D60, 39396, Jul 23 2023 14:02:18.465669, PH DIR2 BLK A  
362, T60, 3595758, Jul 23 2023 14:02:18.433234, PH DIR1 BLK A  
363, T60, 3595757, Jul 23 2023 14:02:18.153057, PH DIR1 BLK A  
364, T60, 3595756, Jul 23 2023 14:02:18.123045, PH DIR1 BLK A  
365, T60, 3595755, Jul 23 2023 14:02:18.110538, PH DIR1 BLK A  
366, T60, 3595754, Jul 23 2023 14:02:18.025506, PH DIR1 BLK A  
367, T60, 3595753, Jul 23 2023 14:02:17.912954, PH DIR1 BLK A  
368, T60, 3595752, Jul 23 2023 14:02:17.792906, PH DIR1 BLK A  
369, T60, 3595751, Jul 23 2023 14:02:17.732881, PH DIR1 BLK A  
370, T60, 3595750, Jul 23 2023 14:02:17.690367, PH DIR1 BLK A  
371, T60, 3595749, Jul 23 2023 14:02:17.662853, PH DIR1 BLK A  
372, T60, 3595748, Jul 23 2023 14:02:17.442770, PH DIR1 BLK A  
373, T60, 3595747, Jul 23 2023 14:02:17.405249, PH DIR1 BLK A  
374, D60, 39395, Jul 23 2023 14:02:17.340217, PH DIR2 BLK A  
375, T60, 3595746, Jul 23 2023 14:02:17.332717, PH DIR1 BLK A  
376, T60, 3595745, Jul 23 2023 14:02:17.305203, PH DIR1 BLK A  
377, T60, 3595744, Jul 23 2023 14:02:17.240175, PH DIR1 BLK A  
378, T60, 3595743, Jul 23 2023 14:02:17.180148, PH DIR1 BLK A  
379, T60, 3595742, Jul 23 2023 14:02:17.102617, PH DIR1 BLK A  
380, T60, 3595741, Jul 23 2023 14:02:16.892516, PH DIR1 BLK A  
381, T60, 3595740, Jul 23 2023 14:02:16.814983, PH DIR1 BLK A  
382, T60, 3595739, Jul 23 2023 14:02:16.752447, PH DIR1 BLK A  
383, T60, 3595738, Jul 23 2023 14:02:16.619886, PH DIR1 BLK A  
384, T60, 3595737, Jul 23 2023 14:02:16.549864, PH DIR1 BLK A  
385, D60, 39394, Jul 16 2023 22:31:37.167821, PH DIR2 BLK C  
386, D60, 39393, Jul 16 2023 22:31:37.060400, PH DIR2 BLK A  
387, T60, 3595736, Jul 16 2023 22:31:36.764321, PH DIR1 BLK C  
388, T60, 3595735, Jul 16 2023 22:31:36.689378, PH DIR1 BLK A  
389, D60, 39392, Jul 16 2023 22:31:36.186106, PH DIR2 BLK B  
390, T60, 3595734, Jul 16 2023 22:31:36.094865, PH DIR1 BLK B  
391, D60, 39387, Jul 16 2023 19:54:35.144817, PH DIR2 BLK C  
392, D60, 39386, Jul 16 2023 19:54:34.967429, PH DIR2 BLK A  
393, T60, 3595726, Jul 16 2023 19:54:34.889512, PH DIR1 BLK C  
394, D60, 39385, Jul 16 2023 19:54:34.792548, PH DIR2 BLK B  
395, D60, 39384, Jul 16 2023 19:54:34.640151, PH DIR2 BLK A



396, D60, 39383, Jul 16 2023 19:54:34.575198, PH DIR2 BLK A  
397, T60, 3595725, Jul 16 2023 19:54:34.562170, PH DIR1 BLK A  
398, T60, 3595724, Jul 16 2023 19:54:34.504711, PH DIR1 BLK B  
399, T60, 3595723, Jul 16 2023 19:54:34.419768, PH DIR1 BLK A  
400, T60, 3595722, Jul 16 2023 19:54:34.359824, PH DIR1 BLK A  
401, T60, 3595721, Jul 16 2023 19:54:34.297353, PH DIR1 BLK A  
402, T60, 3595733, Jul 16 2023 18:54:49.436404, PH DIR1 BLK A  
403, T60, 3595732, Jul 16 2023 18:54:49.376404, PH DIR1 BLK A  
404, T60, 3595731, Jul 16 2023 18:54:49.366404, PH DIR1 BLK A  
405, T60, 3595730, Jul 16 2023 18:54:49.241386, PH DIR1 BLK B  
406, T60, 3595729, Jul 16 2023 18:54:49.068877, PH DIR1 BLK A  
407, T60, 3595728, Jul 16 2023 18:54:48.991366, PH DIR1 BLK A  
408, D60, 39391, Jul 16 2023 18:54:48.783853, PH DIR2 BLK A  
409, D60, 39390, Jul 16 2023 18:54:48.558846, PH DIR2 BLK A  
410, T60, 3595727, Jul 16 2023 18:54:48.531345, PH DIR1 BLK C  
411, D60, 39389, Jul 16 2023 18:54:48.498840, PH DIR2 BLK A  
412, D60, 39388, Jul 16 2023 18:54:47.826345, PH DIR2 BLK C  
413, T60, 3595720, Jul 16 2023 16:41:13.202194, PH DIR1 BLK A  
414, T60, 3595719, Jul 16 2023 16:41:13.064942, PH DIR1 BLK B  
415, T60, 3595718, Jul 16 2023 16:41:12.880272, PH DIR1 BLK A  
416, D60, 39382, Jul 16 2023 16:41:12.860301, PH DIR2 BLK A  
417, T60, 3595717, Jul 16 2023 16:41:12.830363, PH DIR1 BLK A  
418, D60, 39381, Jul 16 2023 16:41:12.785443, PH DIR2 BLK B  
419, D60, 39380, Jul 16 2023 16:41:12.780450, PH DIR2 BLK A  
420, D60, 39379, Jul 16 2023 16:41:12.570843, PH DIR2 BLK A  
421, D60, 39378, Jul 16 2023 16:41:12.473527, PH DIR2 BLK A  
422, D60, 39377, Jul 16 2023 16:41:11.889600, PH DIR2 BLK A  
423, D60, 39376, Jul 16 2023 16:41:11.809748, PH DIR2 BLK A  
424, T60, 3595716, Jul 16 2023 16:41:11.792291, PH DIR1 BLK C  
425, D60, 39375, Jul 16 2023 16:40:58.897448, PH DIR2 BLK C  
426, T60, 3595715, Jul 16 2023 16:40:58.557829, PH DIR1 BLK C  
427, D60, 39374, Jul 16 2023 16:40:58.343035, PH DIR2 BLK B  
428, D60, 39373, Jul 16 2023 16:40:58.263121, PH DIR2 BLK A  
429, T60, 3595714, Jul 16 2023 16:40:58.095799, PH DIR1 BLK A  
430, T60, 3595713, Jul 16 2023 16:40:58.043346, PH DIR1 BLK B  
431, T60, 3595712, Jul 16 2023 16:40:58.025861, PH DIR1 BLK A  
432, T60, 3595711, Jul 16 2023 16:40:57.968403, PH DIR1 BLK A  
433, T60, 3595710, Jul 16 2023 16:40:57.925941, PH DIR1 BLK A  
434, C60, 591, Jul 15 2023 14:27:32.028532, CB1\_RESFLT On  
435, T60, 3595706, Jul 15 2023 14:27:31.998914, CB1\_RESFLT On  
436, C60, 590, Jul 15 2023 14:27:31.981084, CB2\_RESFLT On  
437, T60, 3595705, Jul 15 2023 14:27:31.951465, CB2\_RESFLT On  
438, T60, 3595704, Jul 15 2023 14:27:31.869357, T1\_IMGTRMIK On  
439, C60, 589, Jul 15 2023 14:26:30.022930, CB2\_RESFLT Off  
440, C60, 593, Jul 15 2023 13:27:43.965283, CB1\_RESFLT Off  
441, T60, 3595709, Jul 15 2023 13:27:43.964445, CB1\_RESFLT Off  
442, T60, 3595708, Jul 15 2023 13:27:43.082838, T1\_IMGTRMIK Off  
443, C60, 592, Jul 15 2023 13:27:41.005958, CB2\_RESFLT Off  
444, T60, 3595707, Jul 15 2023 13:27:41.005112, CB2\_RESFLT Off  
445, T60, 3595703, Jul 15 2023 13:26:30.045796, CB2\_RESFLT Off

446, T60, 3595702, Jul 15 2023 13:26:29.631237, PHASE TOC2 DPO A  
447, T60, 3595701, Jul 15 2023 13:26:29.631237, PHASE TOC1 DPO A  
448, D60, 39372, Jul 15 2023 13:26:29.631232, PHASE TOC2 DPO A  
449, D60, 39371, Jul 15 2023 13:26:29.631232, PHASE TOC1 DPO A  
450, T60, 3595700, Jul 15 2023 13:26:29.581302, PHASE TOC2 DPO C  
451, T60, 3595699, Jul 15 2023 13:26:29.581302, PHASE TOC1 DPO C  
452, D60, 39370, Jul 15 2023 13:26:29.581299, PHASE TOC2 DPO C  
453, D60, 39369, Jul 15 2023 13:26:29.581299, PHASE TOC1 DPO C  
454, C60, 588, Jul 15 2023 13:26:29.502323, 52T\_CLOSE\_L Off  
455, T60, 3595698, Jul 15 2023 13:26:29.501470, PHASE TOC2 PKP C  
456, T60, 3595697, Jul 15 2023 13:26:29.501470, PHASE TOC1 PKP C  
457, D60, 39368, Jul 15 2023 13:26:29.501468, PHASE TOC2 PKP C  
458, D60, 39367, Jul 15 2023 13:26:29.501468, PHASE TOC1 PKP C  
459, D60, 39366, Jul 15 2023 13:26:29.491493, PHASE TOC2 PKP A  
460, D60, 39365, Jul 15 2023 13:26:29.491493, PHASE TOC1 PKP A  
461, T60, 3595696, Jul 15 2023 13:26:29.491494, OSCILLOGRAPHY TRIG'D  
462, T60, 3595695, Jul 15 2023 13:26:29.491494, PHASE TOC2 PKP A  
463, T60, 3595694, Jul 15 2023 13:26:29.491494, PHASE TOC1 PKP A  
464, D60, 39364, Jul 15 2023 13:26:29.484015, PH DIR2 BLK B  
465, T60, 3595693, Jul 15 2023 13:26:29.484004, OSCILLOGRAPHY TRIG'D  
466, T60, 3595692, Jul 15 2023 13:26:29.484004, XFMR PCNT DIFF PKP C  
467, T60, 3595691, Jul 15 2023 13:26:29.484004, PH DIR1 BLK B  
468, C60, 587, Jul 15 2023 13:26:29.479851, Osc\_Trigger Off  
469, D60, 39363, Jul 15 2023 13:26:29.479014, PH DIR2 BLK C  
470, D60, 39362, Jul 15 2023 13:26:29.479014, PH DIR2 BLK A  
471, T60, 3595690, Jul 15 2023 13:26:29.479013, OSCILLOGRAPHY TRIG'D  
472, T60, 3595689, Jul 15 2023 13:26:29.479013, XFMR PCNT DIFF PKP B  
473, T60, 3595688, Jul 15 2023 13:26:29.479013, XFMR PCNT DIFF PKP A  
474, T60, 3595687, Jul 15 2023 13:26:29.479013, PH DIR1 BLK C  
475, T60, 3595686, Jul 15 2023 13:26:29.479013, PH DIR1 BLK A  
476, C60, 586, Jul 15 2023 13:26:29.477356, CB2\_RESFLT On  
477, C60, 585, Jul 15 2023 13:26:29.477356, OSCILLOGRAPHY TRIG'D  
478, C60, 584, Jul 15 2023 13:26:29.477356, Osc\_Trigger On  
479, T60, 3595685, Jul 15 2023 13:26:29.476513, CB2\_RESFLT On  
480, C60, 583, Jul 15 2023 13:26:29.472361, BREAKER 1 OPEN  
481, T60, 3595684, Jul 15 2023 13:26:29.471518, RESERVA On  
482, T60, 3595683, Jul 15 2023 13:26:29.471518, RESERVA On  
483, T60, 3595682, Jul 15 2023 13:26:29.468111, 52T\_CL On  
484, D60, 39361, Jul 15 2023 13:26:29.467992, 52HT\_CERRADO On  
485, C60, 582, Jul 15 2023 13:26:29.452385, BREAKER 1 IA INTERM  
486, T60, 3595681, Jul 15 2023 13:26:29.449607, 52T\_OP Off  
487, D60, 39360, Jul 15 2023 13:26:29.448985, 52HT\_ABIERTO Off  
488, C60, 581, Jul 15 2023 13:26:29.399948, 52T\_CLOSE\_L On  
489, C60, 580, Jul 15 2023 13:26:29.399948, BREAKER 1 MNL CLS  
490, C60, 579, Jul 15 2023 13:26:29.399948, BREAKER 1 ON CMD  
491, C60, 578, Jul 15 2023 13:06:41.707213, 891T\_27LINEA Off  
492, C60, 577, Jul 15 2023 13:06:41.707213, SYNC 1 CLS DPO  
493, C60, 576, Jul 15 2023 13:06:41.707213, SYNC 1 DEAD S DPO  
494, C60, 575, Jul 15 2023 11:21:12.827297, CB1\_RESFLT Off  
495, T60, 3595680, Jul 15 2023 11:21:12.826133, CB1\_RESFLT Off

496, T60, 3595679, Jul 15 2023 11:21:11.986184, T1\_IMGTRMIK Off  
497, C60, 574, Jul 15 2023 11:21:09.747253, CB2\_RESFLT Off  
498, T60, 3595678, Jul 15 2023 11:21:09.746104, CB2\_RESFLT Off  
499, C60, 573, Jul 15 2023 11:21:04.992178, CB1\_RESFLT On  
500, T60, 3595677, Jul 15 2023 11:21:04.991052, CB1\_RESFLT On  
501, C60, 572, Jul 15 2023 11:21:00.267123, CB1\_RESFLT Off  
502, T60, 3595676, Jul 15 2023 11:21:00.266013, CB1\_RESFLT Off  
503, T60, 3595675, Jul 15 2023 11:20:55.552995, T1\_IMGTRMIK On  
504, C60, 571, Jul 15 2023 11:20:54.684528, CB1\_RESFLT On  
505, T60, 3595674, Jul 15 2023 11:20:54.683452, CB1\_RESFLT On  
506, T60, 3595673, Jul 15 2023 11:20:53.740945, CB2\_RESFLT On  
507, T60, 3595672, Jul 15 2023 11:20:53.738443, CB2\_RESFLT Off  
508, T60, 3595671, Jul 15 2023 11:20:52.800932, Oscillatory GOOSE  
509, C60, 570, Jul 15 2023 11:20:52.766998, CB2\_RESFLT On  
510, T60, 3595670, Jul 15 2023 11:20:52.765934, CB2\_RESFLT On  
511, C60, 569, Jul 15 2023 11:20:52.762001, CB2\_RESFLT Off  
512, T60, 3595669, Jul 15 2023 11:20:52.760933, CB2\_RESFLT Off  
513, C60, 568, Jul 15 2023 11:20:52.759496, CB2\_RESFLT On  
514, T60, 3595668, Jul 15 2023 11:20:52.758433, CB2\_RESFLT On  
515, C60, 567, Jul 15 2023 11:20:52.756998, CB2\_RESFLT Off  
516, T60, 3595667, Jul 15 2023 11:20:52.755933, CB2\_RESFLT Off  
517, C60, 566, Jul 15 2023 11:20:52.751997, CB2\_RESFLT On  
518, T60, 3595666, Jul 15 2023 11:20:52.750931, CB2\_RESFLT On  
519, C60, 565, Jul 15 2023 11:20:48.173234, 891T\_27LINEA On  
520, C60, 564, Jul 15 2023 11:20:48.173234, SYNC 1 CLS OP  
521, C60, 563, Jul 15 2023 11:20:48.173234, SYNC 1 DEAD S OP  
522, D60, 39359, Jul 15 2023 11:20:48.169766, GROUND TOC1 DPO  
523, T60, 3595665, Jul 15 2023 11:20:48.169761, NEUTRAL TOC1 DPO  
524, T60, 3595664, Jul 15 2023 11:20:48.169761, GROUND TOC1 DPO  
525, D60, 39358, Jul 15 2023 11:20:48.162267, NTRL DIR OC1 REV  
526, D60, 39357, Jul 15 2023 11:20:48.159769, PHASE TOC2 DPO C  
527, D60, 39356, Jul 15 2023 11:20:48.159769, PHASE TOC2 DPO B  
528, D60, 39355, Jul 15 2023 11:20:48.159769, PHASE TOC2 DPO A  
529, D60, 39354, Jul 15 2023 11:20:48.159769, PHASE TOC1 DPO C  
530, D60, 39353, Jul 15 2023 11:20:48.159769, PHASE TOC1 DPO B  
531, D60, 39352, Jul 15 2023 11:20:48.159769, PHASE TOC1 DPO A  
532, T60, 3595663, Jul 15 2023 11:20:48.159767, PHASE TOC2 DPO C  
533, T60, 3595662, Jul 15 2023 11:20:48.159767, PHASE TOC2 DPO B  
534, T60, 3595661, Jul 15 2023 11:20:48.159767, PHASE TOC2 DPO A  
535, T60, 3595660, Jul 15 2023 11:20:48.159767, PHASE TOC1 DPO C  
536, T60, 3595659, Jul 15 2023 11:20:48.159767, PHASE TOC1 DPO B  
537, T60, 3595658, Jul 15 2023 11:20:48.159767, PHASE TOC1 DPO A  
538, D60, 39351, Jul 15 2023 11:20:48.157271, PH DIR2 BLK B  
539, T60, 3595657, Jul 15 2023 11:20:48.157269, PH DIR1 BLK B  
540, C60, 562, Jul 15 2023 11:20:48.148262, Osc\_Trigger Off  
541, C60, 561, Jul 15 2023 11:20:48.148262, BREAKER 1 CLOSED  
542, D60, 39350, Jul 15 2023 11:20:48.147278, 52T\_TRIP2 Off  
543, D60, 39349, Jul 15 2023 11:20:48.147278, 52T\_TRIP1 Off  
544, D60, 39348, Jul 15 2023 11:20:48.147278, PHASE IOC1 DPO C  
545, T60, 3595656, Jul 15 2023 11:20:48.147279, RESERVA Off

546, T60, 3595655, Jul 15 2023 11:20:48.147279, 52T\_TRIPBF1 Off  
547, T60, 3595654, Jul 15 2023 11:20:48.147279, OSCILLOGRAPHY TRIG'D  
548, T60, 3595653, Jul 15 2023 11:20:48.147279, PHASE IOC1 DPO C  
549, C60, 560, Jul 15 2023 11:20:48.145761, OSCILLOGRAPHY TRIG'D  
550, C60, 559, Jul 15 2023 11:20:48.145761, Osc\_Trigger On  
551, T60, 3595652, Jul 15 2023 11:20:48.143454, 52T\_OP On  
552, D60, 39347, Jul 15 2023 11:20:48.142734, 52HT\_ABIERTO On  
553, T60, 3595651, Jul 15 2023 11:20:48.142471, QP\_ABFT60 Off  
554, C60, 558, Jul 15 2023 11:20:48.140765, QP\_ABFD60 Off  
555, D60, 39346, Jul 15 2023 11:20:48.136230, QP\_ABFD60 Off  
556, C60, 557, Jul 15 2023 11:20:48.130771, BREAKER 1 IA INTERM  
557, D60, 39345, Jul 15 2023 11:20:48.129799, ABF\_T60 Off  
558, T60, 3595650, Jul 15 2023 11:20:48.129797, RESERVA Off  
559, T60, 3595649, Jul 15 2023 11:20:48.129797, RESERVA Off  
560, T60, 3595648, Jul 15 2023 11:20:48.129797, TX\_ABF\_CTRAL Off  
561, T60, 3595647, Jul 15 2023 11:20:48.129797, QP\_ABFD60 Off  
562, T60, 3595646, Jul 15 2023 11:20:48.126939, 52T\_CL Off  
563, D60, 39344, Jul 15 2023 11:20:48.126227, 52HT\_CERRADO Off  
564, D60, 39343, Jul 15 2023 11:20:48.119811, BKR FAIL 1 TRIP OP  
565, C60, 556, Jul 15 2023 11:20:48.100789, QP\_ABFD60 On  
566, T60, 3595645, Jul 15 2023 11:20:48.100000, QP\_ABFT60 On  
567, T60, 3595644, Jul 15 2023 11:20:48.094839, BKR FAIL 1 TRIP OP  
568, D60, 39342, Jul 15 2023 11:20:48.094218, QP\_ABFD60 On  
569, D60, 39341, Jul 15 2023 11:20:48.092344, ABF\_T60 On  
570, D60, 39340, Jul 15 2023 11:20:48.089847, 52T\_TRIP2 On  
571, D60, 39339, Jul 15 2023 11:20:48.089847, 52T\_TRIP1 On  
572, D60, 39338, Jul 15 2023 11:20:48.089847, PHASE IOC1 OP C  
573, T60, 3595643, Jul 15 2023 11:20:48.087347, TX\_ABF\_CTRAL On  
574, T60, 3595642, Jul 15 2023 11:20:48.087347, QP\_ABFD60 On  
575, T60, 3595641, Jul 15 2023 11:20:48.087347, RESERVA On  
576, T60, 3595640, Jul 15 2023 11:20:48.087347, 52T\_TRIPBF1 On  
577, T60, 3595639, Jul 15 2023 11:20:48.087347, PHASE IOC1 OP C  
578, T60, 3595638, Jul 15 2023 11:20:47.899987, PH DIR1 BLK B  
579, D60, 39337, Jul 15 2023 11:20:47.897479, PH DIR2 BLK B  
580, T60, 3595637, Jul 15 2023 11:20:47.760154, OSCILLOGRAPHY TRIG'D  
581, T60, 3595636, Jul 15 2023 11:20:47.760154, PHASE TOC2 PKP C  
582, T60, 3595635, Jul 15 2023 11:20:47.760154, PHASE TOC2 PKP B  
583, T60, 3595634, Jul 15 2023 11:20:47.760154, PHASE TOC2 PKP A  
584, T60, 3595633, Jul 15 2023 11:20:47.760154, PHASE TOC1 PKP C  
585, T60, 3595632, Jul 15 2023 11:20:47.760154, PHASE TOC1 PKP B  
586, T60, 3595631, Jul 15 2023 11:20:47.760154, PHASE TOC1 PKP A  
587, D60, 39336, Jul 15 2023 11:20:47.760148, PHASE TOC2 PKP C  
588, D60, 39335, Jul 15 2023 11:20:47.760148, PHASE TOC2 PKP B  
589, D60, 39334, Jul 15 2023 11:20:47.760148, PHASE TOC2 PKP A  
590, D60, 39333, Jul 15 2023 11:20:47.760148, PHASE TOC1 PKP C  
591, D60, 39332, Jul 15 2023 11:20:47.760148, PHASE TOC1 PKP B  
592, D60, 39331, Jul 15 2023 11:20:47.760148, PHASE TOC1 PKP A  
593, T60, 3595630, Jul 15 2023 11:20:47.757660, PHASE IOC1 PKP C  
594, D60, 39330, Jul 15 2023 11:20:47.757654, PHASE IOC1 PKP C  
595, T60, 3595629, Jul 15 2023 11:20:47.750174, OSCILLOGRAPHY TRIG'D



596, T60, 3595628, Jul 15 2023 11:20:47.750174, NEUTRAL TOC1 PKP  
597, T60, 3595627, Jul 15 2023 11:20:47.750174, GROUND TOC1 PKP  
598, D60, 39329, Jul 15 2023 11:20:47.750168, GROUND TOC1 PKP  
599, D60, 39328, Jul 15 2023 11:20:47.740181, NTRL DIR OC1 FWD  
600, T60, 3595626, Jul 15 2023 11:20:47.735195, PH DIR1 BLK A  
601, D60, 39327, Jul 15 2023 11:20:47.735188, PH DIR2 BLK A  
602, C60, 555, Jul 15 2023 11:20:47.733536, Osc\_Trigger Off  
603, T60, 3595625, Jul 15 2023 11:20:47.732697, OSCILLOGRAPHY TRIG'D  
604, T60, 3595624, Jul 15 2023 11:20:47.732697, PH DIR1 BLK B  
605, D60, 39326, Jul 15 2023 11:20:47.732690, PH DIR2 BLK B  
606, C60, 554, Jul 15 2023 11:20:47.731039, OSCILLOGRAPHY TRIG'D  
607, C60, 553, Jul 15 2023 11:20:47.731039, Osc\_Trigger On  
608, D60, 39325, Jul 13 2023 19:17:10.466203, PH DIR2 BLK B  
609, D60, 39324, Jul 13 2023 19:17:08.857201, PH DIR2 BLK B  
610, T60, 3595623, Jul 13 2023 19:17:07.867936, PH DIR1 BLK B  
611, D60, 39323, Jul 13 2023 19:17:05.225640, PH DIR2 BLK A  
612, T60, 3595622, Jul 13 2023 19:17:05.148239, PH DIR1 BLK A  
613, T60, 3595621, Jul 13 2023 16:26:32.029465, PH DIR1 BLK A  
614, D60, 39322, Jul 13 2023 16:26:31.682195, PH DIR2 BLK A  
615, D60, 39305, Jul 13 2023 16:25:36.800214, PH DIR2 BLK A  
616, D60, 39304, Jul 13 2023 16:25:30.068039, PH DIR2 BLK A  
617, T60, 3595620, Jul 13 2023 15:26:24.105643, PH DIR1 BLK C  
618, D60, 39321, Jul 13 2023 15:26:20.896868, PH DIR2 BLK C  
619, D60, 39320, Jul 13 2023 15:26:19.919776, PH DIR2 BLK C  
620, D60, 39319, Jul 13 2023 15:26:19.667356, PH DIR2 BLK C  
621, D60, 39318, Jul 13 2023 15:26:18.967607, PH DIR2 BLK C  
622, D60, 39317, Jul 13 2023 15:26:18.770195, PH DIR2 BLK C  
623, D60, 39316, Jul 13 2023 15:26:18.080450, PH DIR2 BLK C  
624, T60, 3595619, Jul 13 2023 15:26:17.890531, PH DIR1 BLK C  
625, D60, 39315, Jul 13 2023 15:26:17.873031, PH DIR2 BLK B  
626, T60, 3595618, Jul 13 2023 15:26:17.870540, PH DIR1 BLK B  
627, D60, 39314, Jul 13 2023 15:26:17.795568, PH DIR2 BLK A  
628, T60, 3595617, Jul 13 2023 15:26:17.793077, PH DIR1 BLK A  
629, T60, 3595616, Jul 13 2023 15:26:17.213363, PH DIR1 BLK A  
630, D60, 39313, Jul 13 2023 15:26:01.472923, PH DIR2 BLK C  
631, T60, 3595615, Jul 13 2023 15:26:01.465423, PH DIR1 BLK C  
632, D60, 39312, Jul 13 2023 15:26:00.772607, PH DIR2 BLK C  
633, D60, 39311, Jul 13 2023 15:25:56.370344, PH DIR2 BLK C  
634, D60, 39310, Jul 13 2023 15:25:55.737495, PH DIR2 BLK C  
635, D60, 39309, Jul 13 2023 15:25:55.202253, PH DIR2 BLK C  
636, T60, 3595614, Jul 13 2023 15:25:55.152224, PH DIR1 BLK C  
637, D60, 39308, Jul 13 2023 15:25:55.134722, PH DIR2 BLK B  
638, T60, 3595613, Jul 13 2023 15:25:55.127215, PH DIR1 BLK B  
639, D60, 39307, Jul 13 2023 15:25:55.059681, PH DIR2 BLK A  
640, T60, 3595612, Jul 13 2023 15:25:55.057187, PH DIR1 BLK A  
641, D60, 39306, Jul 13 2023 15:25:43.900616, PH DIR2 BLK A  
642, T60, 3595611, Jul 13 2023 15:25:43.898126, PH DIR1 BLK A  
643, T60, 3595610, Jul 13 2023 15:25:29.762514, PH DIR1 BLK A  
644, T60, 3595609, Jul 12 2023 05:07:00.406006, PH DIR1 BLK A  
645, D60, 39303, Jul 12 2023 05:07:00.405991, PH DIR2 BLK A

646, D60, 39300, Jul 12 2023 02:21:37.766462, PH DIR2 BLK A  
647, T60, 3595599, Jul 12 2023 02:21:36.548896, PH DIR1 BLK A  
648, D60, 39299, Jul 12 2023 02:21:35.295924, PH DIR2 BLK C  
649, T60, 3595598, Jul 12 2023 02:21:34.911874, PH DIR1 BLK C  
650, D60, 39298, Jul 12 2023 02:21:34.679560, PH DIR2 BLK B  
651, T60, 3595597, Jul 12 2023 02:21:33.986076, PH DIR1 BLK B  
652, C60, 552, Jul 12 2023 02:13:57.481031, Osc\_Trigger Off  
653, C60, 551, Jul 12 2023 02:13:57.478528, OSCILLOGRAPHY TRIG'D  
654, C60, 550, Jul 12 2023 02:13:57.478528, Osc\_Trigger On  
655, T60, 3595608, Jul 12 2023 02:13:57.477689, OSCILLOGRAPHY TRIG'D  
656, C60, 549, Jul 12 2023 02:07:23.083638, Osc\_Trigger Off  
657, T60, 3595607, Jul 12 2023 02:07:23.082499, OSCILLOGRAPHY TRIG'D  
658, C60, 548, Jul 12 2023 02:07:23.081140, OSCILLOGRAPHY TRIG'D  
659, C60, 547, Jul 12 2023 02:07:23.081140, Osc\_Trigger On  
660, C60, 546, Jul 12 2023 02:07:22.811417, Osc\_Trigger Off  
661, C60, 545, Jul 12 2023 02:07:22.808922, OSCILLOGRAPHY TRIG'D  
662, C60, 544, Jul 12 2023 02:07:22.808922, Osc\_Trigger On  
663, T60, 3595606, Jul 12 2023 02:07:22.808059, OSCILLOGRAPHY TRIG'D  
664, C60, 543, Jul 12 2023 02:07:22.581809, Osc\_Trigger Off  
665, C60, 542, Jul 12 2023 02:07:22.579312, OSCILLOGRAPHY TRIG'D  
666, C60, 541, Jul 12 2023 02:07:22.579312, Osc\_Trigger On  
667, T60, 3595605, Jul 12 2023 02:07:22.578368, OSCILLOGRAPHY TRIG'D  
668, D60, 39302, Jul 12 2023 02:07:22.498541, PH DIR2 BLK B  
669, T60, 3595604, Jul 12 2023 02:07:22.498535, PH DIR1 BLK B  
670, C60, 540, Jul 12 2023 02:07:22.481915, Osc\_Trigger Off  
671, T60, 3595603, Jul 12 2023 02:07:22.481072, OSCILLOGRAPHY TRIG'D  
672, C60, 539, Jul 12 2023 02:07:22.479420, OSCILLOGRAPHY TRIG'D  
673, C60, 538, Jul 12 2023 02:07:22.479420, Osc\_Trigger On  
674, C60, 537, Jul 12 2023 01:42:21.468161, Osc\_Trigger Off  
675, T60, 3595602, Jul 12 2023 01:42:21.466976, OSCILLOGRAPHY TRIG'D  
676, C60, 536, Jul 12 2023 01:42:21.465661, OSCILLOGRAPHY TRIG'D  
677, C60, 535, Jul 12 2023 01:42:21.465661, Osc\_Trigger On  
678, D60, 39301, Jul 12 2023 01:42:21.217332, PH DIR2 BLK B  
679, T60, 3595601, Jul 12 2023 01:42:21.217332, PH DIR1 BLK B  
680, C60, 534, Jul 12 2023 01:42:21.203199, Osc\_Trigger Off  
681, T60, 3595600, Jul 12 2023 01:42:21.202349, OSCILLOGRAPHY TRIG'D  
682, C60, 533, Jul 12 2023 01:42:21.200699, OSCILLOGRAPHY TRIG'D  
683, C60, 532, Jul 12 2023 01:42:21.200699, Osc\_Trigger On  
684, T60, 3595596, Jul 08 2023 13:46:51.334130, PH DIR1 BLK A  
685, D60, 39297, Jul 05 2023 14:54:25.324704, PH DIR2 BLK C  
686, T60, 3595595, Jul 05 2023 14:54:25.324705, PH DIR1 BLK C  
687, T60, 3595594, Jul 05 2023 14:54:25.287190, PH DIR1 BLK B  
688, D60, 39296, Jul 05 2023 14:54:25.287180, PH DIR2 BLK B  
689, C60, 531, Jul 05 2023 14:54:25.220508, Osc\_Trigger Off  
690, C60, 530, Jul 05 2023 14:54:25.218006, OSCILLOGRAPHY TRIG'D  
691, C60, 529, Jul 05 2023 14:54:25.218006, Osc\_Trigger On  
692, T60, 3595593, Jul 05 2023 14:54:25.217171, OSCILLOGRAPHY TRIG'D  
693, T60, 3595592, Jun 30 2023 14:08:37.463698, PH DIR1 BLK A  
694, D60, 39295, Jun 30 2023 14:08:37.445288, PH DIR2 BLK A  
695, D60, 39294, Jun 29 2023 17:27:39.229038, PH DIR2 BLK C

696, D60, 39293, Jun 29 2023 17:27:39.226539, PH DIR2 BLK A  
697, T60, 3595591, Jun 29 2023 17:27:39.219380, PH DIR1 BLK B  
698, T60, 3595590, Jun 29 2023 17:27:39.206885, PH DIR1 BLK C  
699, D60, 39292, Jun 29 2023 17:27:39.206545, PH DIR2 BLK B  
700, T60, 3595589, Jun 29 2023 17:27:39.204385, PH DIR1 BLK A  
701, T60, 3595588, Jun 29 2023 17:27:39.181892, PH DIR1 BLK B  
702, T60, 3595587, Jun 29 2023 11:24:24.656112, PH DIR1 BLK C  
703, D60, 39291, Jun 29 2023 11:24:24.656105, PH DIR2 BLK C  
704, D60, 39290, Jun 29 2023 11:24:24.651102, PH DIR2 BLK B  
705, T60, 3595586, Jun 29 2023 11:24:24.648607, PH DIR1 BLK B  
706, D60, 39289, Jun 29 2023 08:39:06.037638, PH DIR2 BLK B  
707, T60, 3595585, Jun 29 2023 08:39:06.030155, PH DIR1 BLK B  
708, T60, 3595584, Jun 24 2023 12:29:27.090034, PH DIR1 BLK B  
709, T60, 3595583, Jun 24 2023 12:29:27.000305, PH DIR1 BLK B  
710, T60, 3595582, Jun 24 2023 12:29:24.804552, PH DIR1 BLK B  
711, D60, 39288, Jun 24 2023 03:48:42.680288, PH DIR2 BLK B  
712, T60, 3595581, Jun 24 2023 03:48:42.677800, PH DIR1 BLK B  
713, T60, 3595580, Jun 24 2023 03:40:15.458736, PH DIR1 BLK B  
714, T60, 3595579, Jun 24 2023 03:08:31.616837, PH DIR1 BLK B  
715, T60, 3595578, Jun 22 2023 13:17:34.710131, OSCILLOGRAPHY TRIG'D  
716, T60, 3595577, Jun 17 2023 17:50:18.736033, T1\_IMGTRMIK Off  
717, T60, 3595576, Jun 17 2023 17:50:00.645828, T1\_IMGTRMIK On  
718, C60, 528, Jun 15 2023 15:17:14.678909, Osc\_Trigger Off  
719, C60, 527, Jun 15 2023 15:17:14.676408, OSCILLOGRAPHY TRIG'D  
720, C60, 526, Jun 15 2023 15:17:14.676408, Osc\_Trigger On  
721, T60, 3595575, Jun 15 2023 15:17:14.675566, OSCILLOGRAPHY TRIG'D  
722, D60, 39287, Jun 14 2023 01:00:16.880147, PH DIR2 BLK A  
723, T60, 3595574, Jun 14 2023 01:00:16.877651, PH DIR1 BLK A  
724, D60, 39286, Jun 14 2023 01:00:15.599236, PH DIR2 BLK C  
725, T60, 3595573, Jun 14 2023 01:00:15.306579, PH DIR1 BLK C  
726, D60, 39285, Jun 14 2023 01:00:14.723714, PH DIR2 BLK B  
727, T60, 3595572, Jun 14 2023 01:00:14.358521, PH DIR1 BLK B  
728, D60, 39284, Jun 11 2023 15:51:44.172768, PH DIR2 BLK B  
729, T60, 3595571, Jun 11 2023 15:51:44.172767, PH DIR1 BLK B  
730, T60, 3595570, Jun 11 2023 04:47:45.870858, PH DIR1 BLK B  
731, C60, 525, Jun 10 2023 15:07:20.299517, Osc\_Trigger Off  
732, T60, 3595569, Jun 10 2023 15:07:20.298672, OSCILLOGRAPHY TRIG'D  
733, C60, 524, Jun 10 2023 15:07:20.297017, OSCILLOGRAPHY TRIG'D  
734, C60, 523, Jun 10 2023 15:07:20.297017, Osc\_Trigger On  
735, T60, 3595568, Jun 10 2023 01:21:46.739515, PH DIR1 BLK B  
736, D60, 39283, Jun 10 2023 01:21:46.739508, PH DIR2 BLK B  
737, C60, 522, Jun 10 2023 01:21:46.725432, Osc\_Trigger Off  
738, C60, 521, Jun 10 2023 01:21:46.722932, OSCILLOGRAPHY TRIG'D  
739, C60, 520, Jun 10 2023 01:21:46.722932, Osc\_Trigger On  
740, C60, 519, Jun 10 2023 01:21:46.667923, Osc\_Trigger Off  
741, C60, 518, Jun 10 2023 01:21:46.665424, OSCILLOGRAPHY TRIG'D  
742, C60, 517, Jun 10 2023 01:21:46.665424, Osc\_Trigger On  
743, T60, 3595567, Jun 08 2023 17:46:13.432275, T1\_IMGTRMIK Off  
744, T60, 3595566, Jun 08 2023 17:46:10.657602, T1\_IMGTRMIK On  
745, T60, 3595565, Jun 04 2023 02:06:22.498401, PH DIR1 BLK B

746, D60, 39282, Jun 04 2023 02:06:18.696855, PH DIR2 BLK C  
747, T60, 3595564, Jun 04 2023 02:06:18.691863, PH DIR1 BLK C  
748, T60, 3595563, Jun 04 2023 02:06:18.644373, PH DIR1 BLK C  
749, T60, 3595562, Jun 04 2023 02:06:18.614380, PH DIR1 BLK C  
750, D60, 39281, Jun 04 2023 02:06:18.591878, PH DIR2 BLK C  
751, D60, 39280, Jun 04 2023 02:06:18.286939, PH DIR2 BLK C  
752, D60, 39279, Jun 04 2023 02:06:18.251946, PH DIR2 BLK C  
753, T60, 3595561, Jun 04 2023 02:06:18.224456, PH DIR1 BLK C  
754, D60, 39278, Jun 04 2023 02:06:18.221953, PH DIR2 BLK C  
755, D60, 39277, Jun 04 2023 02:06:18.194463, PH DIR2 BLK C  
756, T60, 3595560, Jun 04 2023 02:06:18.071984, PH DIR1 BLK C  
757, D60, 39276, Jun 04 2023 02:06:18.069485, PH DIR2 BLK C  
758, T60, 3595559, Jun 04 2023 02:06:18.041990, PH DIR1 BLK C  
759, D60, 39275, Jun 04 2023 02:06:17.984482, PH DIR2 BLK C  
760, D60, 39274, Jun 04 2023 02:06:17.929494, PH DIR2 BLK C  
761, D60, 39273, Jun 04 2023 02:06:17.874503, PH DIR2 BLK C  
762, D60, 39272, Jun 04 2023 02:06:17.822014, PH DIR2 BLK C  
763, D60, 39271, Jun 04 2023 02:06:17.792023, PH DIR2 BLK C  
764, T60, 3595558, Jun 04 2023 02:06:17.772034, PH DIR1 BLK C  
765, D60, 39270, Jun 04 2023 02:06:17.772026, PH DIR2 BLK C  
766, T60, 3595557, Jun 04 2023 02:06:17.722043, PH DIR1 BLK C  
767, T60, 3595556, Jun 04 2023 02:06:17.702048, PH DIR1 BLK C  
768, D60, 39269, Jun 04 2023 02:06:17.672046, PH DIR2 BLK C  
769, T60, 3595555, Jun 04 2023 02:06:17.669555, PH DIR1 BLK C  
770, T60, 3595554, Jun 04 2023 02:06:17.649559, PH DIR1 BLK C  
771, T60, 3595553, Jun 04 2023 02:06:17.622079, PH DIR1 BLK C  
772, D60, 39268, Jun 04 2023 02:06:17.622059, PH DIR2 BLK C  
773, T60, 3595552, Jun 04 2023 02:06:17.594577, PH DIR1 BLK C  
774, D60, 39267, Jun 04 2023 02:06:17.592068, PH DIR2 BLK C  
775, T60, 3595551, Jun 04 2023 02:06:17.572076, PH DIR1 BLK C  
776, T60, 3595550, Jun 04 2023 02:06:17.452101, PH DIR1 BLK C  
777, D60, 39266, Jun 04 2023 02:06:17.402108, PH DIR2 BLK C  
778, T60, 3595549, Jun 04 2023 02:06:17.374618, PH DIR1 BLK C  
779, T60, 3595548, Jun 04 2023 02:06:17.352122, PH DIR1 BLK C  
780, D60, 39265, Jun 04 2023 02:06:17.344619, PH DIR2 BLK C  
781, D60, 39264, Jun 04 2023 02:06:17.322125, PH DIR2 BLK C  
782, D60, 39263, Jun 04 2023 02:06:17.294631, PH DIR2 BLK C  
783, T60, 3595547, Jun 04 2023 02:06:17.292136, PH DIR1 BLK C  
784, T60, 3595546, Jun 04 2023 02:06:17.249645, PH DIR1 BLK C  
785, T60, 3595545, Jun 04 2023 02:06:17.224651, PH DIR1 BLK C  
786, T60, 3595544, Jun 04 2023 02:06:17.147165, PH DIR1 BLK C  
787, T60, 3595543, Jun 04 2023 02:06:17.122167, PH DIR1 BLK C  
788, T60, 3595542, Jun 04 2023 02:06:17.009689, PH DIR1 BLK C  
789, D60, 39262, Jun 04 2023 02:06:17.004693, PH DIR2 BLK C  
790, T60, 3595541, Jun 04 2023 02:06:16.489799, PH DIR1 BLK A  
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1285, T60, 3595280, May 27 2023 14:10:41.088612, PH DIR1 BLK A  
1286, D60, 39032, May 27 2023 14:10:41.061000, PH DIR2 BLK C  
1287, T60, 3595279, May 27 2023 14:10:41.061001, PH DIR1 BLK C  
1288, D60, 39031, May 27 2023 14:10:41.055979, PH DIR2 BLK A  
1289, T60, 3595278, May 27 2023 14:10:41.055980, PH DIR1 BLK A  
1290, T60, 3595277, May 27 2023 14:10:40.988193, PH DIR1 BLK C  
1291, D60, 39030, May 27 2023 14:10:40.988190, PH DIR2 BLK C  
1292, D60, 39029, May 27 2023 14:10:40.983169, PH DIR2 BLK A  
1293, D60, 39028, May 27 2023 14:10:40.973127, PH DIR2 BLK A  
1294, D60, 39027, May 27 2023 14:10:40.958066, PH DIR2 BLK C  
1295, T60, 3595276, May 27 2023 14:10:40.927949, PH DIR1 BLK C

1296, D60, 39026, May 27 2023 14:10:40.927943, PH DIR2 BLK C  
1297, D60, 39025, May 27 2023 14:10:40.925435, PH DIR2 BLK A  
1298, T60, 3595275, May 27 2023 14:10:40.922927, PH DIR1 BLK A  
1299, T60, 3595274, May 27 2023 14:10:40.860176, PH DIR1 BLK C  
1300, D60, 39024, May 27 2023 14:10:40.860170, PH DIR2 BLK C  
1301, D60, 39023, May 27 2023 14:10:40.857663, PH DIR2 BLK A  
1302, T60, 3595273, May 27 2023 14:10:40.842605, PH DIR1 BLK A  
1303, T60, 3595272, May 27 2023 14:10:40.797425, PH DIR1 BLK C  
1304, D60, 39022, May 27 2023 14:10:40.797416, PH DIR2 BLK C  
1305, T60, 3595271, May 27 2023 14:10:40.794916, PH DIR1 BLK A  
1306, D60, 39021, May 27 2023 14:10:40.794906, PH DIR2 BLK A  
1307, T60, 3595270, May 27 2023 14:10:40.767302, PH DIR1 BLK A  
1308, D60, 39020, May 27 2023 14:10:40.767296, PH DIR2 BLK C  
1309, T60, 3595269, May 27 2023 14:10:40.747222, PH DIR1 BLK C  
1310, D60, 39019, May 27 2023 14:10:40.744703, PH DIR2 BLK C  
1311, D60, 39018, May 27 2023 14:10:40.734664, PH DIR2 BLK A  
1312, D60, 39017, May 27 2023 14:10:40.704544, PH DIR2 BLK A  
1313, D60, 39016, May 27 2023 14:10:40.676933, PH DIR2 BLK A  
1314, T60, 3595268, May 27 2023 14:10:40.671918, PH DIR1 BLK A  
1315, D60, 39015, May 27 2023 14:10:40.624222, PH DIR2 BLK A  
1316, T60, 3595267, May 27 2023 14:10:40.621730, PH DIR1 BLK A  
1317, D60, 39014, May 27 2023 14:10:40.453532, PH DIR2 BLK C  
1318, T60, 3595266, May 27 2023 14:10:40.446007, PH DIR1 BLK C  
1319, D60, 39013, May 27 2023 14:10:40.440980, PH DIR2 BLK A  
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1321, T60, 3595264, May 27 2023 14:10:40.375720, PH DIR1 BLK C  
1322, D60, 39012, May 27 2023 14:10:40.370696, PH DIR2 BLK A  
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1324, D60, 39011, May 27 2023 14:10:40.315476, PH DIR2 BLK A  
1325, T60, 3595262, May 27 2023 14:10:40.312967, PH DIR1 BLK A  
1326, T60, 3595261, May 27 2023 14:10:40.292887, PH DIR1 BLK A  
1327, T60, 3595259, May 25 2023 18:53:13.143185, T1\_IMGTRMIK Off  
1328, T60, 3595258, May 25 2023 18:53:06.147856, T1\_IMGTRMIK On  
1329, C60, 513, May 25 2023 01:24:04.241073, Osc\_Trigger Off  
1330, C60, 512, May 25 2023 01:24:04.238579, OSCILLOGRAPHY TRIG'D  
1331, C60, 511, May 25 2023 01:24:04.238579, Osc\_Trigger On  
1332, T60, 3595257, May 25 2023 01:24:04.237734, OSCILLOGRAPHY TRIG'D  
1333, T60, 3595256, May 25 2023 01:23:58.551137, OSCILLOGRAPHY TRIG'D  
1334, C60, 510, May 25 2023 01:23:58.539506, Osc\_Trigger Off  
1335, C60, 509, May 25 2023 01:23:58.537010, OSCILLOGRAPHY TRIG'D  
1336, C60, 508, May 25 2023 01:23:58.537010, Osc\_Trigger On  
1337, C60, 507, May 21 2023 22:40:27.934931, Osc\_Trigger Off  
1338, C60, 506, May 21 2023 22:40:27.932436, OSCILLOGRAPHY TRIG'D  
1339, C60, 505, May 21 2023 22:40:27.932436, Osc\_Trigger On  
1340, C60, 504, May 21 2023 22:40:27.815218, Osc\_Trigger Off  
1341, T60, 3595255, May 21 2023 22:40:27.814379, OSCILLOGRAPHY TRIG'D  
1342, C60, 503, May 21 2023 22:40:27.812723, OSCILLOGRAPHY TRIG'D  
1343, C60, 502, May 21 2023 22:40:27.812723, Osc\_Trigger On  
1344, C60, 501, May 21 2023 22:40:05.406260, Osc\_Trigger Off  
1345, T60, 3595254, May 21 2023 22:40:05.405612, OSCILLOGRAPHY TRIG'D

1346, C60, 500, May 21 2023 22:40:05.403765, OSCILLOGRAPHY TRIG'D  
1347, C60, 499, May 21 2023 22:40:05.403765, Osc\_Trigger On  
1348, C60, 498, May 21 2023 22:40:05.286571, Osc\_Trigger Off  
1349, C60, 497, May 21 2023 22:40:05.284076, OSCILLOGRAPHY TRIG'D  
1350, C60, 496, May 21 2023 22:40:05.284076, Osc\_Trigger On  
1351, T60, 3595253, May 21 2023 22:40:05.283233, OSCILLOGRAPHY TRIG'D  
1352, T60, 3595252, May 20 2023 14:44:11.109698, PH DIR1 BLK B  
1353, T60, 3595247, May 19 2023 17:49:39.285836, PH DIR1 BLK A  
1354, T60, 3595246, May 19 2023 17:49:37.724767, PH DIR1 BLK A  
1355, D60, 39009, May 19 2023 17:49:36.778764, PH DIR2 BLK A  
1356, T60, 3595245, May 19 2023 17:49:36.750755, PH DIR1 BLK A  
1357, T60, 3595244, May 19 2023 17:49:36.458570, PH DIR1 BLK A  
1358, T60, 3595243, May 19 2023 17:49:36.268786, PH DIR1 BLK A  
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1364, D60, 39008, May 19 2023 17:49:35.170742, PH DIR2 BLK A  
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1366, T60, 3595236, May 19 2023 17:49:35.092821, PH DIR1 BLK A  
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1368, T60, 3595234, May 19 2023 17:49:34.947999, PH DIR1 BLK A  
1369, T60, 3595233, May 19 2023 17:49:34.900564, PH DIR1 BLK A  
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1372, D60, 39007, May 19 2023 17:49:34.771319, PH DIR2 BLK A  
1373, T60, 3595230, May 19 2023 17:49:34.748284, PH DIR1 BLK A  
1374, D60, 39006, May 19 2023 17:49:34.721388, PH DIR2 BLK A  
1375, T60, 3595229, May 19 2023 17:49:34.698356, PH DIR1 BLK A  
1376, T60, 3595228, May 19 2023 17:49:34.613480, PH DIR1 BLK A  
1377, D60, 39005, May 19 2023 17:49:34.579098, PH DIR2 BLK A  
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1382, D60, 39002, May 19 2023 17:49:34.381891, PH DIR2 BLK A  
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1528, T60, 3595169, May 19 2023 16:49:23.779007, PH DIR1 BLK A  
1529, T60, 3595168, May 19 2023 16:49:23.761525, PH DIR1 BLK A  
1530, D60, 38916, May 19 2023 16:49:23.709098, PH DIR2 BLK A  
1531, T60, 3595167, May 19 2023 16:49:23.704094, PH DIR1 BLK A  
1532, D60, 38915, May 19 2023 16:49:23.681617, PH DIR2 BLK A  
1533, T60, 3595166, May 19 2023 16:49:23.679121, PH DIR1 BLK A  
1534, D60, 38914, May 19 2023 16:49:23.621688, PH DIR2 BLK A  
1535, T60, 3595165, May 19 2023 16:49:23.619196, PH DIR1 BLK A  
1536, D60, 38913, May 19 2023 16:49:23.539282, PH DIR2 BLK A  
1537, T60, 3595164, May 19 2023 16:49:23.531806, PH DIR1 BLK A  
1538, T60, 3595163, May 19 2023 16:49:23.481867, PH DIR1 BLK A  
1539, D60, 38912, May 19 2023 16:49:23.481850, PH DIR2 BLK A  
1540, D60, 38911, May 19 2023 16:49:23.431912, PH DIR2 BLK A  
1541, T60, 3595162, May 19 2023 16:49:23.429427, PH DIR1 BLK A  
1542, T60, 3595161, May 19 2023 16:49:23.379481, PH DIR1 BLK A  
1543, D60, 38910, May 19 2023 16:49:23.379473, PH DIR2 BLK A  
1544, D60, 38909, May 19 2023 16:49:23.332032, PH DIR2 BLK A  
1545, T60, 3595160, May 19 2023 16:49:23.329542, PH DIR1 BLK A

1546, D60, 38908, May 19 2023 16:49:23.289586, PH DIR2 BLK A  
1547, T60, 3595159, May 19 2023 16:49:23.284594, PH DIR1 BLK A  
1548, D60, 38907, May 19 2023 16:49:23.239651, PH DIR2 BLK A  
1549, T60, 3595158, May 19 2023 16:49:23.239648, PH DIR1 BLK A  
1550, T60, 3595157, May 19 2023 16:49:23.189712, PH DIR1 BLK A  
1551, D60, 38906, May 19 2023 16:49:23.134788, PH DIR2 BLK A  
1552, T60, 3595156, May 19 2023 16:49:23.134778, PH DIR1 BLK A  
1553, D60, 38905, May 19 2023 16:49:23.092335, PH DIR2 BLK A  
1554, T60, 3595155, May 19 2023 16:49:23.089832, PH DIR1 BLK A  
1555, D60, 38904, May 19 2023 16:49:23.039891, PH DIR2 BLK A  
1556, T60, 3595154, May 19 2023 16:49:23.039890, PH DIR1 BLK A  
1557, T60, 3595153, May 19 2023 16:49:22.992442, PH DIR1 BLK A  
1558, D60, 38903, May 19 2023 16:49:22.992433, PH DIR2 BLK A  
1559, T60, 3595152, May 19 2023 16:49:22.949994, PH DIR1 BLK A  
1560, D60, 38902, May 19 2023 16:49:22.890058, PH DIR2 BLK A  
1561, T60, 3595151, May 19 2023 16:49:22.885074, PH DIR1 BLK A  
1562, D60, 38901, May 19 2023 16:49:22.842616, PH DIR2 BLK A  
1563, T60, 3595150, May 19 2023 16:49:22.840127, PH DIR1 BLK A  
1564, T60, 3595149, May 19 2023 16:49:22.795185, PH DIR1 BLK A  
1565, D60, 38900, May 19 2023 16:49:22.795177, PH DIR2 BLK A  
1566, T60, 3595148, May 19 2023 16:49:22.742767, PH DIR1 BLK A  
1567, D60, 38899, May 19 2023 16:49:22.742743, PH DIR2 BLK A  
1568, D60, 38898, May 19 2023 16:49:22.700306, PH DIR2 BLK A  
1569, T60, 3595147, May 19 2023 16:49:22.692813, PH DIR1 BLK A  
1570, D60, 38897, May 19 2023 16:49:22.660348, PH DIR2 BLK A  
1571, T60, 3595146, May 19 2023 16:49:22.650364, PH DIR1 BLK A  
1572, T60, 3595145, May 19 2023 16:49:22.600425, PH DIR1 BLK A  
1573, D60, 38896, May 19 2023 16:49:22.600422, PH DIR2 BLK A  
1574, T60, 3595144, May 19 2023 16:49:22.550490, PH DIR1 BLK A  
1575, D60, 38895, May 19 2023 16:49:22.460602, PH DIR2 BLK A  
1576, T60, 3595143, May 19 2023 16:49:22.453116, PH DIR1 BLK A  
1577, D60, 38894, May 19 2023 16:49:22.243381, PH DIR2 BLK A  
1578, D60, 38893, May 19 2023 16:49:22.203433, PH DIR2 BLK A  
1579, T60, 3595142, May 19 2023 16:49:22.200939, PH DIR1 BLK A  
1580, D60, 38892, May 19 2023 16:49:22.168479, PH DIR2 BLK A  
1581, T60, 3595141, May 19 2023 16:49:22.163487, PH DIR1 BLK A  
1582, D60, 38891, May 19 2023 16:49:22.116048, PH DIR2 BLK A  
1583, T60, 3595140, May 19 2023 16:49:22.113550, PH DIR1 BLK A  
1584, D60, 38890, May 19 2023 16:49:21.881332, PH DIR2 BLK A  
1585, T60, 3595139, May 19 2023 16:49:21.876353, PH DIR1 BLK A  
1586, T60, 3595138, May 19 2023 16:49:21.836402, PH DIR1 BLK A  
1587, T60, 3595137, May 19 2023 16:49:21.781472, PH DIR1 BLK A  
1588, T60, 3595136, May 18 2023 13:12:38.444859, PH DIR1 BLK A  
1589, T60, 3595135, May 18 2023 13:12:37.566924, PH DIR1 BLK A  
1590, D60, 38889, May 18 2023 13:12:37.220448, PH DIR2 BLK A  
1591, D60, 38888, May 18 2023 13:12:35.674927, PH DIR2 BLK A  
1592, T60, 3595134, May 18 2023 13:12:34.275679, PH DIR1 BLK A  
1593, T60, 3595133, May 18 2023 12:12:07.522069, PH DIR1 BLK A  
1594, D60, 38887, May 17 2023 15:57:31.655396, PH DIR2 BLK A  
1595, T60, 3595132, May 17 2023 15:57:31.081495, PH DIR1 BLK A



1596, D60, 38886, May 17 2023 14:56:54.150237, PH DIR2 BLK A  
1597, T60, 3595131, May 17 2023 14:56:53.767079, PH DIR1 BLK A  
1598, D60, 38885, May 12 2023 23:22:53.378447, PH DIR2 BLK B  
1599, T60, 3595130, May 12 2023 23:22:52.279345, PH DIR1 BLK B  
1600, T60, 3595129, May 09 2023 22:20:13.614737, T1\_IMGTRMIK Off  
1601, T60, 3595128, May 09 2023 22:20:10.066856, T1\_IMGTRMIK On  
1602, C60, 495, May 09 2023 16:19:43.374905, Osc\_Trigger Off  
1603, C60, 494, May 09 2023 16:19:43.372406, OSCILLOGRAPHY TRIG'D  
1604, C60, 493, May 09 2023 16:19:43.372406, Osc\_Trigger On  
1605, T60, 3595127, May 09 2023 16:19:43.371560, OSCILLOGRAPHY TRIG'D  
1606, T60, 3595124, May 09 2023 13:38:33.496053, OSCILLOGRAPHY TRIG'D  
1607, C60, 492, May 09 2023 13:38:33.480479, Osc\_Trigger Off  
1608, C60, 491, May 09 2023 13:38:33.477985, OSCILLOGRAPHY TRIG'D  
1609, C60, 490, May 09 2023 13:38:33.477985, Osc\_Trigger On  
1610, T60, 3595123, May 09 2023 13:38:31.914464, OSCILLOGRAPHY TRIG'D  
1611, C60, 489, May 09 2023 13:38:31.899012, Osc\_Trigger Off  
1612, C60, 488, May 09 2023 13:38:31.896524, OSCILLOGRAPHY TRIG'D  
1613, C60, 487, May 09 2023 13:38:31.896524, Osc\_Trigger On  
1614, T60, 3595122, May 09 2023 13:38:31.269358, OSCILLOGRAPHY TRIG'D  
1615, C60, 486, May 09 2023 13:38:31.253796, Osc\_Trigger Off  
1616, C60, 485, May 09 2023 13:38:31.251307, OSCILLOGRAPHY TRIG'D  
1617, C60, 484, May 09 2023 13:38:31.251307, Osc\_Trigger On  
1618, D60, 38884, May 09 2023 12:38:48.323945, PH DIR2 BLK A  
1619, T60, 3595126, May 09 2023 12:38:48.316481, PH DIR1 BLK A  
1620, D60, 38883, May 09 2023 12:38:47.331094, PH DIR2 BLK A  
1621, D60, 38882, May 09 2023 12:38:41.632416, PH DIR2 BLK A  
1622, T60, 3595125, May 09 2023 12:38:41.629960, PH DIR1 BLK A  
1623, D60, 38881, May 06 2023 12:35:32.670172, PH DIR2 BLK A  
1624, T60, 3595121, May 06 2023 12:35:32.662103, PH DIR1 BLK B  
1625, T60, 3595120, May 06 2023 12:35:32.652113, PH DIR1 BLK A  
1626, C60, 483, May 06 2023 12:35:31.803629, Osc\_Trigger Off  
1627, C60, 482, May 06 2023 12:35:31.801131, OSCILLOGRAPHY TRIG'D  
1628, C60, 481, May 06 2023 12:35:31.801131, Osc\_Trigger On  
1629, T60, 3595119, May 06 2023 12:35:31.778286, OSCILLOGRAPHY TRIG'D  
1630, D60, 38880, May 06 2023 12:35:31.678952, PH DIR2 BLK B  
1631, D60, 38879, May 06 2023 12:35:31.668955, GROUND TOC1 DPO  
1632, T60, 3595118, May 06 2023 12:35:31.660884, PH DIR1 BLK B  
1633, D60, 38878, May 06 2023 12:35:31.658961, PHASE TOC2 DPO B  
1634, D60, 38877, May 06 2023 12:35:31.658961, PHASE TOC1 DPO B  
1635, D60, 38876, May 06 2023 12:35:31.658961, PH DIR2 BLK A  
1636, T60, 3595117, May 06 2023 12:35:31.650889, NEUTRAL TOC1 DPO  
1637, T60, 3595116, May 06 2023 12:35:31.650889, GROUND TOC1 DPO  
1638, T60, 3595115, May 06 2023 12:35:31.640893, PHASE TOC2 DPO B  
1639, T60, 3595114, May 06 2023 12:35:31.640893, PHASE TOC1 DPO B  
1640, T60, 3595113, May 06 2023 12:35:31.640893, PH DIR1 BLK A  
1641, D60, 38875, May 06 2023 12:35:31.638972, PHASE TOC2 PKP B  
1642, D60, 38874, May 06 2023 12:35:31.638972, PHASE TOC1 PKP B  
1643, T60, 3595112, May 06 2023 12:35:31.620906, OSCILLOGRAPHY TRIG'D  
1644, T60, 3595111, May 06 2023 12:35:31.620906, PHASE TOC2 PKP B  
1645, T60, 3595110, May 06 2023 12:35:31.620906, PHASE TOC1 PKP B

1646, D60, 38873, May 06 2023 12:35:31.618982, GROUND TOC1 PKP  
1647, C60, 480, May 06 2023 12:35:31.611319, Osc\_Trigger Off  
1648, C60, 479, May 06 2023 12:35:31.608821, OSCILLOGRAPHY TRIG'D  
1649, C60, 478, May 06 2023 12:35:31.608821, Osc\_Trigger On  
1650, D60, 38872, May 06 2023 12:35:31.606496, PH DIR2 BLK C  
1651, T60, 3595109, May 06 2023 12:35:31.600914, OSCILLOGRAPHY TRIG'D  
1652, T60, 3595108, May 06 2023 12:35:31.600914, NEUTRAL TOC1 PKP  
1653, T60, 3595107, May 06 2023 12:35:31.600914, GROUND TOC1 PKP  
1654, T60, 3595106, May 06 2023 12:35:31.588429, PH DIR1 BLK C  
1655, T60, 3595105, May 06 2023 12:35:31.585932, OSCILLOGRAPHY TRIG'D  
1656, C60, 477, May 03 2023 12:12:16.009451, CB1\_RESFLT Off  
1657, T60, 3595104, May 03 2023 12:12:16.008604, CB1\_RESFLT Off  
1658, T60, 3595103, May 03 2023 12:12:14.504985, T1\_IMGTRMIK Off  
1659, C60, 476, May 03 2023 12:12:14.418616, CB1\_RESFLT On  
1660, T60, 3595102, May 03 2023 12:12:14.010071, CB1\_RESFLT On  
1661, T60, 3595101, May 03 2023 12:12:13.647407, CB1\_RESFLT Off  
1662, T60, 3595100, May 03 2023 12:12:13.642405, CB1\_RESFLT On  
1663, T60, 3595099, May 03 2023 12:12:13.637402, CB1\_RESFLT Off  
1664, T60, 3595098, May 03 2023 12:12:13.634902, CB1\_RESFLT On  
1665, T60, 3595097, May 03 2023 12:12:13.627399, CB1\_RESFLT Off  
1666, T60, 3595096, May 03 2023 12:12:13.614895, CB1\_RESFLT On  
1667, T60, 3595095, May 03 2023 12:12:13.607393, CB1\_RESFLT Off  
1668, T60, 3595094, May 03 2023 12:12:13.594888, CB1\_RESFLT On  
1669, T60, 3595093, May 03 2023 12:12:13.587384, CB1\_RESFLT Off  
1670, T60, 3595092, May 03 2023 12:12:13.572378, CB1\_RESFLT On  
1671, T60, 3595091, May 03 2023 12:12:13.567377, CB1\_RESFLT Off  
1672, T60, 3595090, May 03 2023 12:12:13.549870, CB1\_RESFLT On  
1673, T60, 3595089, May 03 2023 12:12:13.547368, CB1\_RESFLT Off  
1674, T60, 3595088, May 03 2023 12:12:13.529862, CB1\_RESFLT On  
1675, T60, 3595087, May 03 2023 12:12:13.527360, CB1\_RESFLT Off  
1676, T60, 3595086, May 03 2023 12:12:13.509854, CB1\_RESFLT On  
1677, T60, 3595085, May 03 2023 12:12:13.507353, CB1\_RESFLT Off  
1678, T60, 3595084, May 03 2023 12:12:13.492347, CB1\_RESFLT On  
1679, T60, 3595083, May 03 2023 12:12:13.487342, CB1\_RESFLT Off  
1680, T60, 3595082, May 03 2023 12:12:13.469838, CB1\_RESFLT On  
1681, T60, 3595081, May 03 2023 12:12:13.467337, CB1\_RESFLT Off  
1682, T60, 3595080, May 03 2023 12:12:13.449829, CB1\_RESFLT On  
1683, T60, 3595079, May 03 2023 12:12:13.447329, CB1\_RESFLT Off  
1684, T60, 3595078, May 03 2023 12:12:13.429822, CB1\_RESFLT On  
1685, T60, 3595077, May 03 2023 12:12:13.427321, CB1\_RESFLT Off  
1686, T60, 3595076, May 03 2023 12:12:13.392308, CB1\_RESFLT On  
1687, T60, 3595075, May 03 2023 12:12:13.387306, CB1\_RESFLT Off  
1688, T60, 3595074, May 03 2023 12:12:13.369800, CB1\_RESFLT On  
1689, T60, 3595073, May 03 2023 12:12:13.367298, CB1\_RESFLT Off  
1690, T60, 3595072, May 03 2023 12:12:13.349792, CB1\_RESFLT On  
1691, T60, 3595071, May 03 2023 12:12:13.347291, CB1\_RESFLT Off  
1692, T60, 3595070, May 03 2023 12:12:13.329784, CB1\_RESFLT On  
1693, T60, 3595069, May 03 2023 12:12:13.327283, CB1\_RESFLT Off  
1694, T60, 3595068, May 03 2023 12:12:13.309778, CB1\_RESFLT On  
1695, T60, 3595067, May 03 2023 12:12:13.307276, CB1\_RESFLT Off

1696,	T60,	3595066,	May 03 2023	12:12:13.292273,	CB1_RESFLT	On
1697,	T60,	3595065,	May 03 2023	12:12:13.287269,	CB1_RESFLT	Off
1698,	T60,	3595064,	May 03 2023	12:12:13.272264,	CB1_RESFLT	On
1699,	T60,	3595063,	May 03 2023	12:12:13.267263,	CB1_RESFLT	Off
1700,	T60,	3595062,	May 03 2023	12:12:13.252257,	CB1_RESFLT	On
1701,	T60,	3595061,	May 03 2023	12:12:13.247255,	CB1_RESFLT	Off
1702,	T60,	3595060,	May 03 2023	12:12:13.232248,	CB1_RESFLT	On
1703,	T60,	3595059,	May 03 2023	12:12:13.227247,	CB1_RESFLT	Off
1704,	T60,	3595058,	May 03 2023	12:12:13.214743,	CB1_RESFLT	On
1705,	T60,	3595057,	May 03 2023	12:12:13.207240,	CB1_RESFLT	Off
1706,	T60,	3595056,	May 03 2023	12:12:13.194737,	CB1_RESFLT	On
1707,	T60,	3595055,	May 03 2023	12:12:13.187233,	CB1_RESFLT	Off
1708,	T60,	3595054,	May 03 2023	12:12:13.174732,	CB1_RESFLT	On
1709,	T60,	3595053,	May 03 2023	12:12:13.169728,	Oscillatory	GOOSE
1710,	C60,	475,	May 03 2023	12:12:13.168068,	CB1_RESFLT	Off
1711,	T60,	3595052,	May 03 2023	12:12:13.167228,	CB1_RESFLT	Off
1712,	C60,	474,	May 03 2023	12:12:13.155564,	CB1_RESFLT	On
1713,	T60,	3595051,	May 03 2023	12:12:13.154725,	CB1_RESFLT	On
1714,	C60,	473,	May 03 2023	12:12:13.148062,	CB1_RESFLT	Off
1715,	T60,	3595050,	May 03 2023	12:12:13.147221,	CB1_RESFLT	Off
1716,	C60,	472,	May 03 2023	12:12:13.143060,	CB1_RESFLT	On
1717,	T60,	3595049,	May 03 2023	12:12:13.142218,	CB1_RESFLT	On
1718,	C60,	471,	May 03 2023	12:12:13.128055,	CB1_RESFLT	Off
1719,	T60,	3595048,	May 03 2023	12:12:13.127213,	CB1_RESFLT	Off
1720,	C60,	470,	May 03 2023	12:12:13.120551,	CB1_RESFLT	On
1721,	T60,	3595047,	May 03 2023	12:12:13.119710,	CB1_RESFLT	On
1722,	T60,	3595046,	May 03 2023	12:12:11.366648,	T1_IMGTRMIK	On
1723,	T60,	3595045,	May 03 2023	12:12:08.489330,	NEUTRAL TOC1	DPO
1724,	T60,	3595044,	May 03 2023	12:12:08.489330,	GROUND TOC1	DPO
1725,	D60,	38871,	May 03 2023	12:12:08.489324,	GROUND TOC1	DPO
1726,	T60,	3595043,	May 03 2023	12:12:08.469327,	PHASE TOC2	DPO B
1727,	T60,	3595042,	May 03 2023	12:12:08.469327,	PHASE TOC1	DPO B
1728,	D60,	38870,	May 03 2023	12:12:08.469324,	PHASE TOC2	DPO B
1729,	D60,	38869,	May 03 2023	12:12:08.469324,	PHASE TOC1	DPO B
1730,	T60,	3595041,	May 03 2023	12:12:08.399320,	OSCILLOGRAPHY	TRIG'D
1731,	T60,	3595040,	May 03 2023	12:12:08.399320,	PHASE TOC2	PKP B
1732,	T60,	3595039,	May 03 2023	12:12:08.399320,	PHASE TOC1	PKP B
1733,	D60,	38868,	May 03 2023	12:12:08.399315,	PHASE TOC2	PKP B
1734,	D60,	38867,	May 03 2023	12:12:08.399315,	PHASE TOC1	PKP B
1735,	T60,	3595038,	May 03 2023	12:12:08.389320,	OSCILLOGRAPHY	TRIG'D
1736,	T60,	3595037,	May 03 2023	12:12:08.389320,	NEUTRAL TOC1	PKP
1737,	T60,	3595036,	May 03 2023	12:12:08.389320,	GROUND TOC1	PKP
1738,	D60,	38866,	May 03 2023	12:12:08.389315,	GROUND TOC1	PKP
1739,	D60,	38865,	May 03 2023	12:12:08.389315,	NTRL DIR OC1	FWD
1740,	T60,	3595035,	May 03 2023	12:12:08.379322,	PH DIR1	BLK C
1741,	D60,	38864,	May 03 2023	12:12:08.379317,	PH DIR2	BLK C
1742,	C60,	469,	May 03 2023	12:12:08.375164,	Osc_Trigger	Off
1743,	T60,	3595034,	May 03 2023	12:12:08.374323,	OSCILLOGRAPHY	TRIG'D
1744,	T60,	3595033,	May 03 2023	12:12:08.374323,	PH DIR1	BLK A
1745,	D60,	38863,	May 03 2023	12:12:08.374318,	PH DIR2	BLK A

1746, C60, 468, May 03 2023 12:12:08.372665, OSCILLOGRAPHY TRIG'D  
1747, C60, 467, May 03 2023 12:12:08.372665, Osc\_Trigger On  
1748, C60, 464, Apr 27 2023 16:28:39.335077, OSCILLOGRAPHY TRIG'D  
1749, C60, 463, Apr 27 2023 16:28:35.150064, OSCILLOGRAPHY TRIG'D  
1750, C60, 460, Apr 27 2023 16:14:30.202860, OSCILLOGRAPHY TRIG'D  
1751, C60, 458, Apr 27 2023 16:13:38.067585, OSCILLOGRAPHY TRIG'D  
1752, C60, 466, Apr 27 2023 15:28:58.359029, OSCILLOGRAPHY TRIG'D  
1753, C60, 465, Apr 27 2023 15:28:47.381041, OSCILLOGRAPHY TRIG'D  
1754, C60, 462, Apr 27 2023 15:24:02.412574, OSCILLOGRAPHY TRIG'D  
1755, C60, 461, Apr 27 2023 15:14:51.448621, OSCILLOGRAPHY TRIG'D  
1756, C60, 459, Apr 27 2023 15:14:11.353054, OSCILLOGRAPHY TRIG'D  
1757, T60, 3595032, Apr 25 2023 20:45:20.246861, T1\_IMGTRMIK Off  
1758, T60, 3595031, Apr 25 2023 20:45:12.130315, T1\_IMGTRMIK On  
1759, C60, 457, Apr 24 2023 10:28:23.004779, Osc\_Trigger Off  
1760, C60, 456, Apr 24 2023 10:28:23.002277, OSCILLOGRAPHY TRIG'D  
1761, C60, 455, Apr 24 2023 10:28:23.002277, Osc\_Trigger On  
1762, T60, 3595030, Apr 24 2023 10:28:23.001541, OSCILLOGRAPHY TRIG'D  
1763, C60, 454, Apr 24 2023 10:28:22.862070, Osc\_Trigger Off  
1764, T60, 3595029, Apr 24 2023 10:28:22.861216, OSCILLOGRAPHY TRIG'D  
1765, C60, 453, Apr 24 2023 10:28:22.859567, OSCILLOGRAPHY TRIG'D  
1766, C60, 452, Apr 24 2023 10:28:22.859567, Osc\_Trigger On  
1767, C60, 451, Apr 23 2023 14:37:56.151095, Osc\_Trigger Off  
1768, T60, 3595028, Apr 23 2023 14:37:56.150142, OSCILLOGRAPHY TRIG'D  
1769, C60, 450, Apr 23 2023 14:37:56.148596, OSCILLOGRAPHY TRIG'D  
1770, C60, 449, Apr 23 2023 14:37:56.148596, Osc\_Trigger On  
1771, D60, 38862, Apr 19 2023 13:01:38.357455, GROUND TOC1 DPO  
1772, T60, 3595027, Apr 19 2023 13:01:38.332110, NEUTRAL TOC1 DPO  
1773, T60, 3595026, Apr 19 2023 13:01:38.332110, GROUND TOC1 DPO  
1774, D60, 38861, Apr 19 2023 13:01:38.267617, GROUND TOC1 PKP  
1775, D60, 38860, Apr 19 2023 13:01:38.260129, PH DIR2 BLK C  
1776, T60, 3595025, Apr 19 2023 13:01:38.242272, OSCILLOGRAPHY TRIG'D  
1777, T60, 3595024, Apr 19 2023 13:01:38.242272, NEUTRAL TOC1 PKP  
1778, T60, 3595023, Apr 19 2023 13:01:38.242272, GROUND TOC1 PKP  
1779, T60, 3595022, Apr 19 2023 13:01:38.234786, PH DIR1 BLK C  
1780, C60, 448, Apr 19 2023 13:01:38.227815, Osc\_Trigger Off  
1781, T60, 3595021, Apr 19 2023 13:01:38.227322, OSCILLOGRAPHY TRIG'D  
1782, C60, 447, Apr 19 2023 13:01:38.225322, OSCILLOGRAPHY TRIG'D  
1783, C60, 446, Apr 19 2023 13:01:38.225322, Osc\_Trigger On  
1784, T60, 3595020, Apr 16 2023 10:49:27.712655, PH DIR1 BLK B  
1785, T60, 3595019, Apr 16 2023 10:49:27.231408, PH DIR1 BLK B  
1786, D60, 38859, Apr 16 2023 10:49:27.018349, PH DIR2 BLK B  
1787, T60, 3595018, Apr 16 2023 10:49:26.933104, PH DIR1 BLK B  
1788, D60, 38858, Apr 16 2023 10:49:19.751059, PH DIR2 BLK B  
1789, D60, 38857, Apr 16 2023 10:49:19.500193, PH DIR2 BLK B  
1790, D60, 38856, Apr 16 2023 10:49:19.236776, PH DIR2 BLK B  
1791, T60, 3595017, Apr 16 2023 10:49:18.870487, PH DIR1 BLK B  
1792, T60, 3595016, Apr 16 2023 10:49:18.607059, PH DIR1 BLK B  
1793, T60, 3595015, Apr 16 2023 10:42:10.363072, NEUTRAL TOC1 DPO  
1794, T60, 3595014, Apr 16 2023 10:42:10.363072, GROUND TOC1 DPO  
1795, D60, 38855, Apr 16 2023 10:42:10.363065, GROUND TOC1 DPO



1796, T60, 3595013, Apr 16 2023 10:42:10.353026, OSCILLOGRAPHY TRIG'D  
1797, T60, 3595012, Apr 16 2023 10:42:10.353026, NEUTRAL TOC1 PKP  
1798, T60, 3595011, Apr 16 2023 10:42:10.353026, GROUND TOC1 PKP  
1799, D60, 38854, Apr 16 2023 10:42:10.353022, GROUND TOC1 PKP  
1800, T60, 3595010, Apr 16 2023 10:42:10.342974, OSCILLOGRAPHY TRIG'D  
1801, C60, 445, Apr 16 2023 10:42:10.341257, Osc\_Trigger Off  
1802, C60, 444, Apr 16 2023 10:42:10.338746, OSCILLOGRAPHY TRIG'D  
1803, C60, 443, Apr 16 2023 10:42:10.338746, Osc\_Trigger On  
1804, D60, 38853, Apr 16 2023 10:42:10.332926, PH DIR2 BLK C  
1805, T60, 3595009, Apr 16 2023 10:42:10.332926, PH DIR1 BLK C  
1806, C60, 442, Apr 12 2023 16:11:06.082427, Osc\_Trigger Off  
1807, T60, 3595008, Apr 12 2023 16:11:06.081596, OSCILLOGRAPHY TRIG'D  
1808, C60, 441, Apr 12 2023 16:11:06.079926, OSCILLOGRAPHY TRIG'D  
1809, C60, 440, Apr 12 2023 16:11:06.079926, Osc\_Trigger On  
1810, C60, 439, Apr 12 2023 16:11:05.649564, Osc\_Trigger Off  
1811, C60, 438, Apr 12 2023 16:11:05.647064, OSCILLOGRAPHY TRIG'D  
1812, C60, 437, Apr 12 2023 16:11:05.647064, Osc\_Trigger On  
1813, T60, 3595007, Apr 12 2023 16:11:05.646224, OSCILLOGRAPHY TRIG'D  
1814, C60, 436, Apr 10 2023 02:31:27.521142, Osc\_Trigger Off  
1815, T60, 3595006, Apr 10 2023 02:31:27.520299, OSCILLOGRAPHY TRIG'D  
1816, C60, 435, Apr 10 2023 02:31:27.518645, OSCILLOGRAPHY TRIG'D  
1817, C60, 434, Apr 10 2023 02:31:27.518645, Osc\_Trigger On  
1818, C60, 433, Apr 07 2023 13:42:45.588805, Osc\_Trigger Off  
1819, C60, 432, Apr 07 2023 13:42:45.586286, OSCILLOGRAPHY TRIG'D  
1820, C60, 431, Apr 07 2023 13:42:45.586286, Osc\_Trigger On  
1821, T60, 3595005, Apr 07 2023 13:42:45.585316, OSCILLOGRAPHY TRIG'D  
1822, C60, 430, Apr 07 2023 13:42:45.498717, Osc\_Trigger Off  
1823, T60, 3595004, Apr 07 2023 13:42:45.497873, OSCILLOGRAPHY TRIG'D  
1824, C60, 429, Apr 07 2023 13:42:45.496218, OSCILLOGRAPHY TRIG'D  
1825, C60, 428, Apr 07 2023 13:42:45.496218, Osc\_Trigger On  
1826, C60, 427, Apr 06 2023 10:50:50.213554, CB1\_RESFLT Off  
1827, T60, 3595003, Apr 06 2023 10:50:50.212724, CB1\_RESFLT Off  
1828, T60, 3595002, Apr 06 2023 10:50:49.393476, T1\_IMGTRMIK Off  
1829, T60, 3595001, Apr 06 2023 10:50:46.750698, CB1\_RESFLT On  
1830, T60, 3595000, Apr 06 2023 10:50:46.748205, CB1\_RESFLT Off  
1831, T60, 3594999, Apr 06 2023 10:50:46.730755, CB1\_RESFLT On  
1832, T60, 3594998, Apr 06 2023 10:50:46.728249, CB1\_RESFLT Off  
1833, T60, 3594997, Apr 06 2023 10:50:46.710759, CB1\_RESFLT On  
1834, T60, 3594996, Apr 06 2023 10:50:46.708264, CB1\_RESFLT Off  
1835, T60, 3594995, Apr 06 2023 10:50:46.690789, CB1\_RESFLT On  
1836, T60, 3594994, Apr 06 2023 10:50:46.688294, CB1\_RESFLT Off  
1837, T60, 3594993, Apr 06 2023 10:50:46.670819, CB1\_RESFLT On  
1838, T60, 3594992, Apr 06 2023 10:50:46.668324, CB1\_RESFLT Off  
1839, T60, 3594991, Apr 06 2023 10:50:46.653348, CB1\_RESFLT On  
1840, T60, 3594990, Apr 06 2023 10:50:46.648355, CB1\_RESFLT Off  
1841, T60, 3594989, Apr 06 2023 10:50:46.633376, CB1\_RESFLT On  
1842, T60, 3594988, Apr 06 2023 10:50:46.628384, CB1\_RESFLT Off  
1843, T60, 3594987, Apr 06 2023 10:50:46.610909, CB1\_RESFLT On  
1844, T60, 3594986, Apr 06 2023 10:50:46.608414, CB1\_RESFLT Off  
1845, T60, 3594985, Apr 06 2023 10:50:46.590941, CB1\_RESFLT On

1846, T60, 3594984, Apr 06 2023 10:50:46.588445, CB1\_RESFLT Off  
1847, T60, 3594983, Apr 06 2023 10:50:46.585950, Oscillatory GOOSE  
1848, C60, 426, Apr 06 2023 10:50:46.584296, CB1\_RESFLT On  
1849, T60, 3594982, Apr 06 2023 10:50:46.583452, CB1\_RESFLT On  
1850, C60, 425, Apr 06 2023 10:50:46.579303, CB1\_RESFLT Off  
1851, T60, 3594981, Apr 06 2023 10:50:46.578459, CB1\_RESFLT Off  
1852, C60, 424, Apr 06 2023 10:50:46.571812, CB1\_RESFLT On  
1853, T60, 3594980, Apr 06 2023 10:50:46.570971, CB1\_RESFLT On  
1854, C60, 423, Apr 06 2023 10:50:46.569317, CB1\_RESFLT Off  
1855, T60, 3594979, Apr 06 2023 10:50:46.568475, CB1\_RESFLT Off  
1856, C60, 422, Apr 06 2023 10:50:46.564324, CB1\_RESFLT On  
1857, T60, 3594978, Apr 06 2023 10:50:46.563482, CB1\_RESFLT On  
1858, C60, 421, Apr 06 2023 10:50:46.559331, CB1\_RESFLT Off  
1859, T60, 3594977, Apr 06 2023 10:50:46.558489, CB1\_RESFLT Off  
1860, C60, 420, Apr 06 2023 10:50:46.556834, CB1\_RESFLT On  
1861, T60, 3594976, Apr 06 2023 10:50:46.555993, CB1\_RESFLT On  
1862, C60, 419, Apr 06 2023 10:50:46.549344, CB1\_RESFLT Off  
1863, T60, 3594975, Apr 06 2023 10:50:46.548508, CB1\_RESFLT Off  
1864, C60, 418, Apr 06 2023 10:50:46.546849, CB1\_RESFLT On  
1865, T60, 3594974, Apr 06 2023 10:50:46.546007, CB1\_RESFLT On  
1866, C60, 417, Apr 06 2023 10:50:46.539360, CB1\_RESFLT Off  
1867, T60, 3594973, Apr 06 2023 10:50:46.538517, CB1\_RESFLT Off  
1868, C60, 416, Apr 06 2023 10:50:46.536864, CB1\_RESFLT On  
1869, T60, 3594972, Apr 06 2023 10:50:46.536022, CB1\_RESFLT On  
1870, C60, 415, Apr 06 2023 10:50:46.509406, CB1\_RESFLT Off  
1871, T60, 3594971, Apr 06 2023 10:50:46.508563, CB1\_RESFLT Off  
1872, C60, 414, Apr 06 2023 10:50:46.506909, CB1\_RESFLT On  
1873, T60, 3594970, Apr 06 2023 10:50:46.506066, CB1\_RESFLT On  
1874, C60, 413, Apr 06 2023 10:50:46.479451, CB1\_RESFLT Off  
1875, T60, 3594969, Apr 06 2023 10:50:46.478609, CB1\_RESFLT Off  
1876, C60, 412, Apr 06 2023 10:50:46.476978, CB1\_RESFLT On  
1877, T60, 3594968, Apr 06 2023 10:50:46.476108, CB1\_RESFLT On  
1878, T60, 3594967, Apr 06 2023 10:50:44.781698, T1\_IMGTRMIK On  
1879, D60, 38852, Apr 06 2023 10:50:43.325968, GROUND TOC1 DPO  
1880, T60, 3594966, Apr 06 2023 10:50:43.325967, NEUTRAL TOC1 DPO  
1881, T60, 3594965, Apr 06 2023 10:50:43.325967, GROUND TOC1 DPO  
1882, T60, 3594964, Apr 06 2023 10:50:43.315981, PHASE TOC2 DPO A  
1883, T60, 3594963, Apr 06 2023 10:50:43.315981, PHASE TOC1 DPO A  
1884, D60, 38851, Apr 06 2023 10:50:43.315976, PHASE TOC2 DPO A  
1885, D60, 38850, Apr 06 2023 10:50:43.315976, PHASE TOC1 DPO A  
1886, T60, 3594962, Apr 06 2023 10:50:43.256037, OSCILLOGRAPHY TRIG'D  
1887, T60, 3594961, Apr 06 2023 10:50:43.256037, PHASE TOC2 PKP A  
1888, T60, 3594960, Apr 06 2023 10:50:43.256037, PHASE TOC1 PKP A  
1889, D60, 38849, Apr 06 2023 10:50:43.256036, PHASE TOC2 PKP A  
1890, D60, 38848, Apr 06 2023 10:50:43.256036, PHASE TOC1 PKP A  
1891, D60, 38847, Apr 06 2023 10:50:43.246047, GROUND TOC1 PKP  
1892, T60, 3594959, Apr 06 2023 10:50:43.246047, OSCILLOGRAPHY TRIG'D  
1893, T60, 3594958, Apr 06 2023 10:50:43.246047, NEUTRAL TOC1 PKP  
1894, T60, 3594957, Apr 06 2023 10:50:43.246047, GROUND TOC1 PKP  
1895, D60, 38846, Apr 06 2023 10:50:43.241054, PH DIR2 BLK C

1896, D60, 38845, Apr 06 2023 10:50:43.241054, NTRL DIR OC1 FWD  
1897, T60, 3594956, Apr 06 2023 10:50:43.241055, PH DIR1 BLK C  
1898, T60, 3594955, Apr 06 2023 10:50:43.236064, PH DIR1 BLK B  
1899, D60, 38844, Apr 06 2023 10:50:43.236063, PH DIR2 BLK B  
1900, C60, 411, Apr 06 2023 10:50:43.231914, Osc\_Trigger Off  
1901, T60, 3594954, Apr 06 2023 10:50:43.231071, OSCILLOGRAPHY TRIG'D  
1902, C60, 410, Apr 06 2023 10:50:43.229419, OSCILLOGRAPHY TRIG'D  
1903, C60, 409, Apr 06 2023 10:50:43.229419, Osc\_Trigger On  
1904, T60, 3594953, Apr 06 2023 10:50:41.958116, NEUTRAL TOC1 DPO  
1905, T60, 3594952, Apr 06 2023 10:50:41.958116, GROUND TOC1 DPO  
1906, D60, 38843, Apr 06 2023 10:50:41.958106, GROUND TOC1 DPO  
1907, T60, 3594951, Apr 06 2023 10:50:41.955618, PH DIR1 BLK A  
1908, D60, 38842, Apr 06 2023 10:50:41.955612, PH DIR2 BLK A  
1909, T60, 3594950, Apr 06 2023 10:50:41.948124, PHASE TOC2 DPO A  
1910, T60, 3594949, Apr 06 2023 10:50:41.948124, PHASE TOC1 DPO A  
1911, D60, 38841, Apr 06 2023 10:50:41.948120, PHASE TOC2 DPO A  
1912, D60, 38840, Apr 06 2023 10:50:41.948120, PHASE TOC1 DPO A  
1913, T60, 3594948, Apr 06 2023 10:50:41.898173, OSCILLOGRAPHY TRIG'D  
1914, T60, 3594947, Apr 06 2023 10:50:41.898173, PHASE TOC2 PKP A  
1915, T60, 3594946, Apr 06 2023 10:50:41.898173, PHASE TOC1 PKP A  
1916, D60, 38839, Apr 06 2023 10:50:41.898168, PHASE TOC2 PKP A  
1917, D60, 38838, Apr 06 2023 10:50:41.898168, PHASE TOC1 PKP A  
1918, D60, 38837, Apr 06 2023 10:50:41.888194, GROUND TOC1 PKP  
1919, T60, 3594945, Apr 06 2023 10:50:41.888184, OSCILLOGRAPHY TRIG'D  
1920, T60, 3594944, Apr 06 2023 10:50:41.888184, NEUTRAL TOC1 PKP  
1921, T60, 3594943, Apr 06 2023 10:50:41.888184, GROUND TOC1 PKP  
1922, D60, 38836, Apr 06 2023 10:50:41.885702, NTRL DIR OC1 FWD  
1923, D60, 38835, Apr 06 2023 10:50:41.880701, PH DIR2 BLK B  
1924, T60, 3594942, Apr 06 2023 10:50:41.880694, PH DIR1 BLK B  
1925, C60, 408, Apr 06 2023 10:50:41.876547, Osc\_Trigger Off  
1926, T60, 3594941, Apr 06 2023 10:50:41.875703, PH DIR1 BLK C  
1927, D60, 38834, Apr 06 2023 10:50:41.875699, PH DIR2 BLK C  
1928, C60, 407, Apr 06 2023 10:50:41.874051, OSCILLOGRAPHY TRIG'D  
1929, C60, 406, Apr 06 2023 10:50:41.874051, Osc\_Trigger On  
1930, T60, 3594940, Apr 06 2023 10:50:41.873208, OSCILLOGRAPHY TRIG'D  
1931, C60, 405, Apr 05 2023 19:20:26.753495, Osc\_Trigger Off  
1932, C60, 404, Apr 05 2023 19:20:26.751000, OSCILLOGRAPHY TRIG'D  
1933, C60, 403, Apr 05 2023 19:20:26.751000, Osc\_Trigger On  
1934, T60, 3594939, Apr 05 2023 19:20:26.749665, OSCILLOGRAPHY TRIG'D  
1935, C60, 402, Apr 05 2023 19:20:26.491597, Osc\_Trigger Off  
1936, T60, 3594938, Apr 05 2023 19:20:26.490470, OSCILLOGRAPHY TRIG'D  
1937, C60, 401, Apr 05 2023 19:20:26.489102, OSCILLOGRAPHY TRIG'D  
1938, C60, 400, Apr 05 2023 19:20:26.489102, Osc\_Trigger On  
1939, C60, 399, Apr 05 2023 19:20:26.354458, Osc\_Trigger Off  
1940, T60, 3594937, Apr 05 2023 19:20:26.353610, OSCILLOGRAPHY TRIG'D  
1941, C60, 398, Apr 05 2023 19:20:26.351982, OSCILLOGRAPHY TRIG'D  
1942, C60, 397, Apr 05 2023 19:20:26.351982, Osc\_Trigger On  
1943, C60, 396, Apr 05 2023 09:02:53.018801, Osc\_Trigger Off  
1944, C60, 395, Apr 05 2023 09:02:53.016302, OSCILLOGRAPHY TRIG'D  
1945, C60, 394, Apr 05 2023 09:02:53.016302, Osc\_Trigger On

1946, T60, 3594936, Apr 05 2023 09:02:53.015407, OSCILLOGRAPHY TRIG'D  
1947, C60, 393, Apr 05 2023 09:02:52.933830, Osc\_Trigger Off  
1948, C60, 392, Apr 05 2023 09:02:52.931333, OSCILLOGRAPHY TRIG'D  
1949, C60, 391, Apr 05 2023 09:02:52.931333, Osc\_Trigger On  
1950, T60, 3594935, Apr 05 2023 09:02:52.930490, OSCILLOGRAPHY TRIG'D  
1951, C60, 390, Apr 04 2023 22:39:14.870223, Osc\_Trigger Off  
1952, C60, 389, Apr 04 2023 22:39:14.867720, OSCILLOGRAPHY TRIG'D  
1953, C60, 388, Apr 04 2023 22:39:14.867720, Osc\_Trigger On  
1954, T60, 3594934, Apr 04 2023 22:39:14.866882, OSCILLOGRAPHY TRIG'D  
1955, C60, 387, Apr 04 2023 22:01:26.919915, Osc\_Trigger Off  
1956, C60, 386, Apr 04 2023 22:01:26.917411, OSCILLOGRAPHY TRIG'D  
1957, C60, 385, Apr 04 2023 22:01:26.917411, Osc\_Trigger On  
1958, T60, 3594933, Apr 04 2023 22:01:26.916564, OSCILLOGRAPHY TRIG'D  
1959, T60, 3594932, Apr 04 2023 21:27:16.411107, PH DIR1 BLK A  
1960, D60, 38833, Apr 04 2023 21:27:16.342999, PH DIR2 BLK A  
1961, T60, 3594931, Apr 04 2023 21:27:16.332916, PH DIR1 BLK A  
1962, D60, 38832, Apr 04 2023 21:27:16.300117, PH DIR2 BLK A  
1963, D60, 38831, Apr 04 2023 21:27:16.242094, PH DIR2 BLK A  
1964, T60, 3594930, Apr 04 2023 21:27:16.239576, PH DIR1 BLK A  
1965, T60, 3594929, Apr 04 2023 21:27:16.186593, PH DIR1 BLK A  
1966, T60, 3594928, Apr 04 2023 21:27:16.118476, PH DIR1 BLK A  
1967, D60, 38830, Apr 04 2023 21:27:15.164208, PH DIR2 BLK C  
1968, C60, 384, Apr 04 2023 21:27:03.345867, CB1\_RESFLT Off  
1969, C60, 383, Apr 04 2023 21:27:02.339352, CB1\_RESFLT On  
1970, D60, 38829, Apr 04 2023 21:27:01.975494, PH DIR2 BLK C  
1971, D60, 38828, Apr 04 2023 21:27:01.689086, PH DIR2 BLK B  
1972, D60, 38827, Apr 04 2023 21:27:01.632319, PH DIR2 BLK A  
1973, C60, 382, Apr 04 2023 21:27:01.204119, CB1\_RESFLT Off  
1974, C60, 381, Apr 04 2023 21:27:01.196380, CB1\_RESFLT On  
1975, C60, 380, Apr 04 2023 21:27:01.193801, CB1\_RESFLT Off  
1976, C60, 379, Apr 04 2023 21:27:01.188643, CB1\_RESFLT On  
1977, C60, 378, Apr 04 2023 21:27:01.160277, CB1\_RESFLT Off  
1978, C60, 377, Apr 04 2023 21:27:01.157698, CB1\_RESFLT On  
1979, C60, 376, Apr 04 2023 21:26:57.278688, Osc\_Trigger Off  
1980, C60, 375, Apr 04 2023 21:26:57.276173, OSCILLOGRAPHY TRIG'D  
1981, C60, 374, Apr 04 2023 21:26:57.276173, Osc\_Trigger On  
1982, D60, 38826, Apr 04 2023 21:26:57.155293, PH DIR2 BLK B  
1983, D60, 38825, Apr 04 2023 21:26:57.147754, PH DIR2 BLK A  
1984, C60, 373, Apr 04 2023 21:26:57.112763, Osc\_Trigger Off  
1985, C60, 372, Apr 04 2023 21:26:57.110249, OSCILLOGRAPHY TRIG'D  
1986, C60, 371, Apr 04 2023 21:26:57.110249, Osc\_Trigger On  
1987, C60, 370, Apr 04 2023 21:26:56.686295, Osc\_Trigger Off  
1988, C60, 369, Apr 04 2023 21:26:56.683789, OSCILLOGRAPHY TRIG'D  
1989, C60, 368, Apr 04 2023 21:26:56.683789, Osc\_Trigger On  
1990, D60, 38824, Apr 04 2023 21:26:56.505162, PH DIR2 BLK A  
1991, C60, 367, Apr 04 2023 21:26:56.465939, Osc\_Trigger Off  
1992, C60, 366, Apr 04 2023 21:26:56.463436, OSCILLOGRAPHY TRIG'D  
1993, C60, 365, Apr 04 2023 21:26:56.463436, Osc\_Trigger On  
1994, C60, 364, Apr 02 2023 07:51:50.123491, Osc\_Trigger Off  
1995, C60, 363, Apr 02 2023 07:51:50.120995, OSCILLOGRAPHY TRIG'D



1996, C60, 362, Apr 02 2023 07:51:50.120995, Osc\_Trigger On  
1997, D60, 38823, Apr 02 2023 07:51:50.010265, PH DIR2 BLK A  
1998, D60, 38822, Apr 02 2023 07:51:50.005272, PH DIR2 BLK C  
1999, D60, 38821, Apr 02 2023 07:51:50.000277, PH DIR2 BLK B  
2000, C60, 361, Apr 02 2023 07:51:49.948721, Osc\_Trigger Off  
2001, C60, 360, Apr 02 2023 07:51:49.946225, OSCILLOGRAPHY TRIG'D  
2002, C60, 359, Apr 02 2023 07:51:49.946225, Osc\_Trigger On  
2003, D60, 38820, Apr 02 2023 04:12:04.196550, PH DIR2 BLK A  
2004, D60, 38819, Apr 02 2023 04:12:04.189021, PH DIR2 BLK C  
2005, C60, 358, Apr 02 2023 04:12:03.655959, Osc\_Trigger Off  
2006, C60, 357, Apr 02 2023 04:12:03.653452, OSCILLOGRAPHY TRIG'D  
2007, C60, 356, Apr 02 2023 04:12:03.653452, Osc\_Trigger On  
2008, D60, 38818, Apr 02 2023 04:12:03.532208, PH DIR2 BLK B  
2009, D60, 38817, Apr 02 2023 04:12:03.514671, PH DIR2 BLK A  
2010, D60, 38816, Apr 02 2023 04:12:03.484605, PH DIR2 BLK A  
2011, C60, 355, Apr 02 2023 04:12:03.475437, Osc\_Trigger Off  
2012, C60, 354, Apr 02 2023 04:12:03.472930, OSCILLOGRAPHY TRIG'D  
2013, C60, 353, Apr 02 2023 04:12:03.472930, Osc\_Trigger On  
2014, C60, 352, Mar 31 2023 23:35:40.188451, Osc\_Trigger Off  
2015, C60, 351, Mar 31 2023 23:35:40.185958, OSCILLOGRAPHY TRIG'D  
2016, C60, 350, Mar 31 2023 23:35:40.185958, Osc\_Trigger On  
2017, C60, 349, Mar 25 2023 21:19:47.277181, Osc\_Trigger Off  
2018, C60, 348, Mar 25 2023 21:19:47.274679, OSCILLOGRAPHY TRIG'D  
2019, C60, 347, Mar 25 2023 21:19:47.274679, Osc\_Trigger On  
2020, D60, 38815, Mar 23 2023 07:03:25.233648, GROUND TOC1 DPO  
2021, C60, 346, Mar 23 2023 07:03:25.232196, Osc\_Trigger Off  
2022, C60, 345, Mar 23 2023 07:03:25.229694, OSCILLOGRAPHY TRIG'D  
2023, C60, 344, Mar 23 2023 07:03:25.229694, Osc\_Trigger On  
2024, D60, 38814, Mar 23 2023 07:03:24.627657, PH DIR2 BLK A  
2025, D60, 38813, Mar 23 2023 07:03:24.602615, GROUND TOC1 PKP  
2026, C60, 343, Mar 23 2023 07:03:24.583449, Osc\_Trigger Off  
2027, C60, 342, Mar 23 2023 07:03:24.580943, OSCILLOGRAPHY TRIG'D  
2028, C60, 341, Mar 23 2023 07:03:24.580943, Osc\_Trigger On  
2029, D60, 38812, Mar 23 2023 00:27:35.823804, PH DIR2 BLK B  
2030, C60, 340, Mar 23 2023 00:27:35.760795, Osc\_Trigger Off  
2031, C60, 339, Mar 23 2023 00:27:35.758296, OSCILLOGRAPHY TRIG'D  
2032, C60, 338, Mar 23 2023 00:27:35.758296, Osc\_Trigger On  
2033, C60, 337, Mar 22 2023 14:40:37.820670, Osc\_Trigger Off  
2034, C60, 336, Mar 22 2023 14:40:37.818167, OSCILLOGRAPHY TRIG'D  
2035, C60, 335, Mar 22 2023 14:40:37.818167, Osc\_Trigger On  
2036, C60, 334, Mar 18 2023 16:48:51.037329, Osc\_Trigger Off  
2037, C60, 333, Mar 18 2023 16:48:51.034831, OSCILLOGRAPHY TRIG'D  
2038, C60, 332, Mar 18 2023 16:48:51.034831, Osc\_Trigger On  
2039, D60, 38782, Mar 18 2023 03:29:29.853886, PH DIR2 BLK B  
2040, D60, 38781, Mar 18 2023 03:29:29.783935, PH DIR2 BLK B  
2041, D60, 38780, Mar 18 2023 03:29:29.756453, PH DIR2 BLK B  
2042, D60, 38779, Mar 18 2023 03:29:29.731471, PH DIR2 BLK B  
2043, D60, 38778, Mar 18 2023 03:29:29.703990, PH DIR2 BLK B  
2044, D60, 38777, Mar 18 2023 03:29:29.641534, PH DIR2 BLK B  
2045, D60, 38776, Mar 18 2023 03:29:29.289266, PH DIR2 BLK B

2046, D60, 38775, Mar 18 2023 03:29:29.164345, PH DIR2 BLK B  
2047, D60, 38774, Mar 18 2023 03:29:29.139377, PH DIR2 BLK B  
2048, D60, 38773, Mar 18 2023 03:29:28.692119, PH DIR2 BLK B  
2049, D60, 38772, Mar 18 2023 03:29:28.662136, PH DIR2 BLK B  
2050, D60, 38771, Mar 18 2023 03:29:28.622160, PH DIR2 BLK B  
2051, D60, 38770, Mar 18 2023 03:29:28.599674, PH DIR2 BLK B  
2052, D60, 38769, Mar 18 2023 03:29:28.564709, PH DIR2 BLK B  
2053, D60, 38768, Mar 18 2023 03:29:28.544711, PH DIR2 BLK B  
2054, D60, 38767, Mar 18 2023 03:29:27.975000, PH DIR2 BLK B  
2055, D60, 38766, Mar 18 2023 03:24:51.967295, PH DIR2 BLK B  
2056, D60, 38765, Mar 18 2023 03:24:51.939811, PH DIR2 BLK B  
2057, D60, 38764, Mar 18 2023 03:24:51.907330, PH DIR2 BLK B  
2058, D60, 38763, Mar 18 2023 03:24:51.879852, PH DIR2 BLK B  
2059, D60, 38762, Mar 18 2023 03:24:51.862357, PH DIR2 BLK B  
2060, D60, 38761, Mar 18 2023 03:24:51.837373, PH DIR2 BLK B  
2061, D60, 38760, Mar 18 2023 03:24:51.809892, PH DIR2 BLK B  
2062, D60, 38759, Mar 18 2023 03:24:51.787419, PH DIR2 BLK B  
2063, D60, 38758, Mar 18 2023 03:24:51.757425, PH DIR2 BLK B  
2064, D60, 38757, Mar 18 2023 03:24:51.165310, PH DIR2 BLK B  
2065, D60, 38756, Mar 18 2023 03:24:51.137830, PH DIR2 BLK B  
2066, D60, 38755, Mar 18 2023 03:24:51.110349, PH DIR2 BLK B  
2067, D60, 38754, Mar 18 2023 03:24:51.060384, PH DIR2 BLK B  
2068, D60, 38753, Mar 18 2023 03:24:50.768055, PH DIR2 BLK B  
2069, D60, 38752, Mar 18 2023 03:24:50.613155, PH DIR2 BLK B  
2070, D60, 38751, Mar 18 2023 03:24:50.588171, PH DIR2 BLK B  
2071, D60, 38750, Mar 18 2023 03:24:50.555693, PH DIR2 BLK B  
2072, D60, 38749, Mar 18 2023 03:24:50.498232, PH DIR2 BLK B  
2073, D60, 38748, Mar 18 2023 03:24:49.998541, PH DIR2 BLK B  
2074, D60, 38747, Mar 18 2023 03:24:49.978555, PH DIR2 BLK B  
2075, D60, 38746, Mar 18 2023 03:24:49.941076, PH DIR2 BLK B  
2076, D60, 38745, Mar 18 2023 03:24:49.911097, PH DIR2 BLK B  
2077, D60, 38744, Mar 18 2023 03:24:49.571318, PH DIR2 BLK B  
2078, D60, 38743, Mar 18 2023 03:24:49.381434, PH DIR2 BLK B  
2079, D60, 38742, Mar 18 2023 03:24:49.323972, PH DIR2 BLK B  
2080, D60, 38741, Mar 18 2023 03:24:49.301489, PH DIR2 BLK B  
2081, D60, 38740, Mar 18 2023 03:24:49.231535, PH DIR2 BLK B  
2082, D60, 38739, Mar 18 2023 03:24:49.201556, PH DIR2 BLK B  
2083, D60, 38738, Mar 18 2023 03:24:49.179072, PH DIR2 BLK B  
2084, D60, 38737, Mar 18 2023 03:24:48.709370, PH DIR2 BLK B  
2085, D60, 38736, Mar 18 2023 03:24:48.681891, PH DIR2 BLK B  
2086, D60, 38735, Mar 18 2023 03:24:48.189735, PH DIR2 BLK B  
2087, D60, 38734, Mar 18 2023 03:24:47.670101, PH DIR2 BLK B  
2088, D60, 38733, Mar 18 2023 03:24:47.637626, PH DIR2 BLK B  
2089, D60, 38732, Mar 18 2023 03:24:47.612643, PH DIR2 BLK B  
2090, D60, 38731, Mar 18 2023 03:24:47.023102, PH DIR2 BLK B  
2091, D60, 38730, Mar 18 2023 03:24:46.928154, PH DIR2 BLK B  
2092, D60, 38729, Mar 18 2023 03:24:46.898178, PH DIR2 BLK B  
2093, D60, 38728, Mar 18 2023 03:24:46.773278, PH DIR2 BLK B  
2094, D60, 38727, Mar 18 2023 03:24:46.153776, PH DIR2 BLK B  
2095, D60, 38811, Mar 18 2023 02:29:32.841650, PH DIR2 BLK B

2096, D60, 38810, Mar 18 2023 02:29:32.819169, PH DIR2 BLK B  
2097, D60, 38809, Mar 18 2023 02:29:32.691784, PH DIR2 BLK B  
2098, D60, 38808, Mar 18 2023 02:29:32.669306, PH DIR2 BLK B  
2099, D60, 38807, Mar 18 2023 02:29:32.641828, PH DIR2 BLK B  
2100, D60, 38806, Mar 18 2023 02:29:32.269664, PH DIR2 BLK B  
2101, D60, 38805, Mar 18 2023 02:29:32.242187, PH DIR2 BLK B  
2102, D60, 38804, Mar 18 2023 02:29:32.212212, PH DIR2 BLK B  
2103, D60, 38803, Mar 18 2023 02:29:32.189734, PH DIR2 BLK B  
2104, D60, 38802, Mar 18 2023 02:29:31.772594, PH DIR2 BLK B  
2105, D60, 38801, Mar 18 2023 02:29:31.500322, PH DIR2 BLK B  
2106, D60, 38800, Mar 18 2023 02:29:31.475344, PH DIR2 BLK B  
2107, D60, 38799, Mar 18 2023 02:29:31.410397, PH DIR2 BLK B  
2108, D60, 38798, Mar 18 2023 02:29:31.380423, PH DIR2 BLK B  
2109, D60, 38797, Mar 18 2023 02:29:31.352945, PH DIR2 BLK B  
2110, D60, 38796, Mar 18 2023 02:29:31.325469, PH DIR2 BLK B  
2111, D60, 38795, Mar 18 2023 02:29:30.933280, PH DIR2 BLK B  
2112, D60, 38794, Mar 18 2023 02:29:30.900807, PH DIR2 BLK B  
2113, D60, 38793, Mar 18 2023 02:29:30.873329, PH DIR2 BLK B  
2114, D60, 38792, Mar 18 2023 02:29:30.853342, PH DIR2 BLK B  
2115, D60, 38791, Mar 18 2023 02:29:30.825866, PH DIR2 BLK B  
2116, D60, 38790, Mar 18 2023 02:29:30.461125, PH DIR2 BLK B  
2117, D60, 38789, Mar 18 2023 02:29:30.428650, PH DIR2 BLK B  
2118, D60, 38788, Mar 18 2023 02:29:30.393675, PH DIR2 BLK B  
2119, D60, 38787, Mar 18 2023 02:29:30.371190, PH DIR2 BLK B  
2120, D60, 38786, Mar 18 2023 02:29:30.333718, PH DIR2 BLK B  
2121, D60, 38785, Mar 18 2023 02:29:30.308735, PH DIR2 BLK B  
2122, D60, 38784, Mar 18 2023 02:29:30.163843, PH DIR2 BLK B  
2123, D60, 38783, Mar 18 2023 02:29:30.013945, PH DIR2 BLK B  
2124, D60, 38726, Mar 17 2023 22:25:49.804099, PH DIR2 BLK B  
2125, C60, 331, Mar 16 2023 19:29:58.880523, CB1\_RESFLT Off  
2126, C60, 330, Mar 16 2023 19:29:50.994646, CB1\_RESFLT On  
2127, C60, 329, Mar 16 2023 19:05:51.628714, CC\_RESTM1 On  
2128, C60, 328, Mar 16 2023 16:56:07.607664, OSCILLOGRAPHY TRIG'D  
2129, C60, 326, Mar 16 2023 16:51:51.547041, OSCILLOGRAPHY TRIG'D  
2130, C60, 325, Mar 16 2023 16:51:01.984486, OSCILLOGRAPHY TRIG'D  
2131, C60, 324, Mar 16 2023 16:49:28.199924, OSCILLOGRAPHY TRIG'D  
2132, C60, 322, Mar 16 2023 16:37:58.955819, OSCILLOGRAPHY TRIG'D  
2133, C60, 321, Mar 16 2023 16:24:43.106958, OSCILLOGRAPHY TRIG'D  
2134, C60, 327, Mar 16 2023 15:53:38.627505, OSCILLOGRAPHY TRIG'D  
2135, C60, 323, Mar 16 2023 15:38:39.451797, OSCILLOGRAPHY TRIG'D  
2136, C60, 320, Mar 12 2023 10:55:56.525289, Osc\_Trigger Off  
2137, C60, 319, Mar 12 2023 10:55:56.522792, OSCILLOGRAPHY TRIG'D  
2138, C60, 318, Mar 12 2023 10:55:56.522792, Osc\_Trigger On  
2139, C60, 317, Mar 12 2023 08:45:07.119099, Osc\_Trigger Off  
2140, C60, 316, Mar 12 2023 08:45:07.116600, OSCILLOGRAPHY TRIG'D  
2141, C60, 315, Mar 12 2023 08:45:07.116600, Osc\_Trigger On  
2142, D60, 38725, Mar 12 2023 08:45:00.384809, PH DIR2 BLK C  
2143, D60, 38724, Mar 12 2023 08:45:00.094982, PH DIR2 BLK A  
2144, D60, 38723, Mar 12 2023 08:44:58.860527, PH DIR2 BLK B  
2145, D60, 38722, Mar 12 2023 08:44:56.750980, PH DIR2 BLK B

2146, D60, 38721, Mar 12 2023 08:44:56.748485, GROUND TOC1 DPO  
2147, D60, 38720, Mar 12 2023 08:44:56.745982, PH DIR2 BLK A  
2148, C60, 314, Mar 12 2023 08:44:56.726606, Osc\_Trigger Off  
2149, C60, 313, Mar 12 2023 08:44:56.724107, OSCILLOGRAPHY TRIG'D  
2150, C60, 312, Mar 12 2023 08:44:56.724107, Osc\_Trigger On  
2151, D60, 38719, Mar 12 2023 08:44:56.708473, PH DIR2 BLK C  
2152, D60, 38718, Mar 12 2023 08:44:56.548384, PHASE TOC2 DPO B  
2153, D60, 38717, Mar 12 2023 08:44:56.548384, PHASE TOC1 DPO B  
2154, D60, 38716, Mar 12 2023 08:44:56.525869, PH DIR2 BLK C  
2155, D60, 38715, Mar 12 2023 08:44:56.518366, PHASE TOC2 PKP B  
2156, D60, 38714, Mar 12 2023 08:44:56.518366, PHASE TOC1 PKP B  
2157, D60, 38713, Mar 12 2023 08:44:56.508361, GROUND TOC1 PKP  
2158, C60, 311, Mar 12 2023 08:44:56.486704, Osc\_Trigger Off  
2159, C60, 310, Mar 12 2023 08:44:56.484203, OSCILLOGRAPHY TRIG'D  
2160, C60, 309, Mar 12 2023 08:44:56.484203, Osc\_Trigger On  
2161, D60, 38712, Mar 11 2023 03:17:24.657037, GROUND TOC1 DPO  
2162, D60, 38711, Mar 11 2023 03:17:24.654537, PH DIR2 BLK A  
2163, D60, 38710, Mar 11 2023 03:17:24.649539, PH DIR2 BLK B  
2164, D60, 38709, Mar 11 2023 03:17:24.577044, GROUND TOC1 PKP  
2165, D60, 38708, Mar 11 2023 03:17:24.567045, PH DIR2 BLK C  
2166, C60, 308, Mar 11 2023 03:17:24.562897, Osc\_Trigger Off  
2167, C60, 307, Mar 11 2023 03:17:24.560398, OSCILLOGRAPHY TRIG'D  
2168, C60, 306, Mar 11 2023 03:17:24.560398, Osc\_Trigger On  
2169, D60, 38707, Mar 11 2023 02:40:06.203069, GROUND TOC1 DPO  
2170, D60, 38706, Mar 11 2023 02:40:06.203069, PH DIR2 BLK B  
2171, D60, 38705, Mar 11 2023 02:40:06.195576, PH DIR2 BLK A  
2172, D60, 38704, Mar 11 2023 02:40:06.130701, PH DIR2 BLK C  
2173, D60, 38703, Mar 11 2023 02:40:06.105750, PH DIR2 BLK B  
2174, D60, 38702, Mar 11 2023 02:40:06.053356, GROUND TOC1 PKP  
2175, C60, 305, Mar 11 2023 02:40:06.039250, Osc\_Trigger Off  
2176, D60, 38701, Mar 11 2023 02:40:06.038388, PH DIR2 BLK B  
2177, C60, 304, Mar 11 2023 02:40:06.036753, OSCILLOGRAPHY TRIG'D  
2178, C60, 303, Mar 11 2023 02:40:06.036753, Osc\_Trigger On  
2179, C60, 302, Mar 08 2023 20:54:05.612910, Osc\_Trigger Off  
2180, C60, 301, Mar 08 2023 20:54:05.610414, OSCILLOGRAPHY TRIG'D  
2181, C60, 300, Mar 08 2023 20:54:05.610414, Osc\_Trigger On  
2182, C60, 299, Mar 06 2023 21:56:47.758001, Osc\_Trigger Off  
2183, D60, 38700, Mar 06 2023 21:56:47.757154, PH DIR2 BLK C  
2184, C60, 298, Mar 06 2023 21:56:47.755510, OSCILLOGRAPHY TRIG'D  
2185, C60, 297, Mar 06 2023 21:56:47.755510, Osc\_Trigger On  
2186, D60, 38699, Mar 06 2023 21:56:47.754663, PH DIR2 BLK A  
2187, C60, 296, Mar 06 2023 21:49:27.868060, Osc\_Trigger Off  
2188, C60, 295, Mar 06 2023 21:49:27.865565, OSCILLOGRAPHY TRIG'D  
2189, C60, 294, Mar 06 2023 21:49:27.865565, Osc\_Trigger On  
2190, C60, 293, Mar 06 2023 21:31:14.640228, Osc\_Trigger Off  
2191, D60, 38698, Mar 06 2023 21:31:14.639378, PH DIR2 BLK A  
2192, C60, 292, Mar 06 2023 21:31:14.637726, OSCILLOGRAPHY TRIG'D  
2193, C60, 291, Mar 06 2023 21:31:14.637726, Osc\_Trigger On  
2194, D60, 38697, Mar 06 2023 21:31:14.636876, PH DIR2 BLK B  
2195, C60, 290, Mar 06 2023 21:08:39.975363, Osc\_Trigger Off



2196, D60, 38696, Mar 06 2023 21:08:39.974516, PH DIR2 BLK A  
2197, C60, 289, Mar 06 2023 21:08:39.972869, OSCILLOGRAPHY TRIG'D  
2198, C60, 288, Mar 06 2023 21:08:39.972869, Osc\_Trigger On  
2199, D60, 38695, Mar 06 2023 21:08:39.972021, PH DIR2 BLK B  
2200, C60, 287, Feb 19 2023 16:54:13.395583, Osc\_Trigger Off  
2201, C60, 286, Feb 19 2023 16:54:13.393084, OSCILLOGRAPHY TRIG'D  
2202, C60, 285, Feb 19 2023 16:54:13.393084, Osc\_Trigger On  
2203, C60, 284, Feb 18 2023 20:53:36.226752, Osc\_Trigger Off  
2204, C60, 283, Feb 18 2023 20:53:36.224256, OSCILLOGRAPHY TRIG'D  
2205, C60, 282, Feb 18 2023 20:53:36.224256, Osc\_Trigger On  
2206, C60, 281, Feb 18 2023 20:53:36.159374, Osc\_Trigger Off  
2207, C60, 280, Feb 18 2023 20:53:36.156881, OSCILLOGRAPHY TRIG'D  
2208, C60, 279, Feb 18 2023 20:53:36.156881, Osc\_Trigger On  
2209, C60, 278, Feb 18 2023 19:33:07.519853, Osc\_Trigger Off  
2210, C60, 277, Feb 18 2023 19:33:07.517362, OSCILLOGRAPHY TRIG'D  
2211, C60, 276, Feb 18 2023 19:33:07.517362, Osc\_Trigger On  
2212, C60, 275, Feb 17 2023 21:02:01.178375, Osc\_Trigger Off  
2213, C60, 274, Feb 17 2023 21:02:01.175879, OSCILLOGRAPHY TRIG'D  
2214, C60, 273, Feb 17 2023 21:02:01.175879, Osc\_Trigger On  
2215, D60, 38694, Feb 17 2023 21:02:01.080099, PH DIR2 BLK B  
2216, D60, 38693, Feb 17 2023 21:02:01.075112, PH DIR2 BLK A  
2217, D60, 38692, Feb 17 2023 21:02:01.065139, PH DIR2 BLK C  
2218, C60, 272, Feb 17 2023 21:02:01.018613, Osc\_Trigger Off  
2219, C60, 271, Feb 17 2023 21:02:01.016119, OSCILLOGRAPHY TRIG'D  
2220, C60, 270, Feb 17 2023 21:02:01.016119, Osc\_Trigger On  
2221, C60, 269, Feb 12 2023 13:42:20.298850, Osc\_Trigger Off  
2222, C60, 268, Feb 12 2023 13:42:20.296357, OSCILLOGRAPHY TRIG'D  
2223, C60, 267, Feb 12 2023 13:42:20.296357, Osc\_Trigger On  
2224, C60, 266, Feb 12 2023 13:42:20.239024, Osc\_Trigger Off  
2225, C60, 265, Feb 12 2023 13:42:20.236534, OSCILLOGRAPHY TRIG'D  
2226, C60, 264, Feb 12 2023 13:42:20.236534, Osc\_Trigger On  
2227, C60, 263, Feb 10 2023 00:24:38.489873, Osc\_Trigger Off  
2228, C60, 262, Feb 10 2023 00:24:38.487380, OSCILLOGRAPHY TRIG'D  
2229, C60, 261, Feb 10 2023 00:24:38.487380, Osc\_Trigger On  
2230, C60, 260, Feb 10 2023 00:24:38.207556, Osc\_Trigger Off  
2231, C60, 259, Feb 10 2023 00:24:38.205055, OSCILLOGRAPHY TRIG'D  
2232, C60, 258, Feb 10 2023 00:24:38.205055, Osc\_Trigger On  
2233, C60, 257, Feb 09 2023 21:29:02.389767, Osc\_Trigger Off  
2234, C60, 256, Feb 09 2023 21:29:02.387254, OSCILLOGRAPHY TRIG'D  
2235, C60, 255, Feb 09 2023 21:29:02.387254, Osc\_Trigger On  
2236, C60, 254, Feb 07 2023 20:17:43.537818, Osc\_Trigger Off  
2237, C60, 253, Feb 07 2023 20:17:43.535317, OSCILLOGRAPHY TRIG'D  
2238, C60, 252, Feb 07 2023 20:17:43.535317, Osc\_Trigger On  
2239, C60, 251, Feb 07 2023 19:50:15.903074, Osc\_Trigger Off  
2240, C60, 250, Feb 07 2023 19:50:15.900577, OSCILLOGRAPHY TRIG'D  
2241, C60, 249, Feb 07 2023 19:50:15.900577, Osc\_Trigger On  
2242, C60, 248, Feb 07 2023 19:50:15.738392, Osc\_Trigger Off  
2243, C60, 247, Feb 07 2023 19:50:15.735896, OSCILLOGRAPHY TRIG'D  
2244, C60, 246, Feb 07 2023 19:50:15.735896, Osc\_Trigger On  
2245, D60, 38691, Feb 07 2023 09:50:54.300372, GROUND TOC1 DPO

2246, D60, 38690, Feb 07 2023 09:50:54.252980, PH DIR2 BLK B  
2247, D60, 38689, Feb 07 2023 09:50:54.240515, GROUND TOC1 PKP  
2248, D60, 38688, Feb 07 2023 09:50:54.230535, PH DIR2 BLK A  
2249, C60, 245, Feb 07 2023 09:50:54.223894, Osc\_Trigger Off  
2250, C60, 244, Feb 07 2023 09:50:54.221398, OSCILLOGRAPHY TRIG'D  
2251, C60, 243, Feb 07 2023 09:50:54.221398, Osc\_Trigger On  
2252, C60, 242, Jan 20 2023 18:08:40.470214, Osc\_Trigger Off  
2253, C60, 241, Jan 20 2023 18:08:40.467709, OSCILLOGRAPHY TRIG'D  
2254, C60, 240, Jan 20 2023 18:08:40.467709, Osc\_Trigger On  
2255, C60, 239, Jan 20 2023 18:08:40.044506, Osc\_Trigger Off  
2256, C60, 238, Jan 20 2023 18:08:40.042007, OSCILLOGRAPHY TRIG'D  
2257, C60, 237, Jan 20 2023 18:08:40.042007, Osc\_Trigger On  
2258, C60, 236, Jan 19 2023 19:50:23.403556, Osc\_Trigger Off  
2259, C60, 235, Jan 19 2023 19:50:23.401055, OSCILLOGRAPHY TRIG'D  
2260, C60, 234, Jan 19 2023 19:50:23.401055, Osc\_Trigger On  
2261, C60, 233, Jan 17 2023 08:38:21.034739, Osc\_Trigger Off  
2262, C60, 232, Jan 17 2023 08:38:21.032236, OSCILLOGRAPHY TRIG'D  
2263, C60, 231, Jan 17 2023 08:38:21.032236, Osc\_Trigger On  
2264, D60, 38687, Jan 17 2023 08:38:20.908677, PH DIR2 BLK B  
2265, C60, 230, Jan 17 2023 08:38:20.849416, Osc\_Trigger Off  
2266, C60, 229, Jan 17 2023 08:38:20.846910, OSCILLOGRAPHY TRIG'D  
2267, C60, 228, Jan 17 2023 08:38:20.846910, Osc\_Trigger On  
2268, C60, 227, Jan 17 2023 07:08:36.265660, Osc\_Trigger Off  
2269, C60, 226, Jan 17 2023 07:08:36.263160, OSCILLOGRAPHY TRIG'D  
2270, C60, 225, Jan 17 2023 07:08:36.263160, Osc\_Trigger On  
2271, D60, 38686, Jan 17 2023 07:08:36.122309, PH DIR2 BLK B  
2272, C60, 224, Jan 17 2023 07:08:36.078195, Osc\_Trigger Off  
2273, C60, 223, Jan 17 2023 07:08:36.075695, OSCILLOGRAPHY TRIG'D  
2274, C60, 222, Jan 17 2023 07:08:36.075695, Osc\_Trigger On  
2275, C60, 221, Jan 13 2023 22:15:36.861045, Osc\_Trigger Off  
2276, C60, 220, Jan 13 2023 22:15:36.858544, OSCILLOGRAPHY TRIG'D  
2277, C60, 219, Jan 13 2023 22:15:36.858544, Osc\_Trigger On  
2278, D60, 38685, Jan 13 2023 22:15:36.855188, PH DIR2 BLK B  
2279, C60, 218, Jan 11 2023 22:00:24.520641, Osc\_Trigger Off  
2280, C60, 217, Jan 11 2023 22:00:24.518148, OSCILLOGRAPHY TRIG'D  
2281, C60, 216, Jan 11 2023 22:00:24.518148, Osc\_Trigger On  
2282, C60, 215, Jan 09 2023 16:49:42.622027, Osc\_Trigger Off  
2283, C60, 214, Jan 09 2023 16:49:42.619518, OSCILLOGRAPHY TRIG'D  
2284, C60, 213, Jan 09 2023 16:49:42.619518, Osc\_Trigger On  
2285, C60, 212, Jan 09 2023 16:49:42.383632, Osc\_Trigger Off  
2286, C60, 211, Jan 09 2023 16:49:42.381122, OSCILLOGRAPHY TRIG'D  
2287, C60, 210, Jan 09 2023 16:49:42.381122, Osc\_Trigger On  
2288, C60, 209, Jan 08 2023 09:24:10.668912, Osc\_Trigger Off  
2289, C60, 208, Jan 08 2023 09:24:10.666410, OSCILLOGRAPHY TRIG'D  
2290, C60, 207, Jan 08 2023 09:24:10.666410, Osc\_Trigger On  
2291, C60, 206, Jan 05 2023 21:46:56.548768, Osc\_Trigger Off  
2292, C60, 205, Jan 05 2023 21:46:56.546272, OSCILLOGRAPHY TRIG'D  
2293, C60, 204, Jan 05 2023 21:46:56.546272, Osc\_Trigger On  
2294, C60, 203, Jan 05 2023 12:52:39.317223, Osc\_Trigger Off  
2295, C60, 202, Jan 05 2023 12:52:39.314725, OSCILLOGRAPHY TRIG'D

2296, C60, 201, Jan 05 2023 12:52:39.314725, Osc\_Trigger On  
2297, C60, 200, Jan 05 2023 12:52:39.217456, Osc\_Trigger Off  
2298, C60, 199, Jan 05 2023 12:52:39.214964, OSCILLOGRAPHY TRIG'D  
2299, C60, 198, Jan 05 2023 12:52:39.214964, Osc\_Trigger On  
2300, C60, 197, Dec 22 2022 15:15:57.702069, Osc\_Trigger Off  
2301, C60, 196, Dec 22 2022 15:15:57.699563, OSCILLOGRAPHY TRIG'D  
2302, C60, 195, Dec 22 2022 15:15:57.699563, Osc\_Trigger On  
2303, D60, 38684, Dec 21 2022 12:02:39.518387, GROUND TOC1 DPO  
2304, D60, 38683, Dec 21 2022 12:02:39.468375, PH DIR2 BLK B  
2305, D60, 38682, Dec 21 2022 12:02:39.455880, PH DIR2 BLK A  
2306, D60, 38681, Dec 21 2022 12:02:39.418398, GROUND TOC1 PKP  
2307, D60, 38680, Dec 21 2022 12:02:39.410900, PH DIR2 BLK A  
2308, C60, 194, Dec 21 2022 12:02:39.401756, Osc\_Trigger Off  
2309, C60, 193, Dec 21 2022 12:02:39.399255, OSCILLOGRAPHY TRIG'D  
2310, C60, 192, Dec 21 2022 12:02:39.399255, Osc\_Trigger On  
2311, C60, 191, Dec 18 2022 19:10:41.865232, Osc\_Trigger Off  
2312, C60, 190, Dec 18 2022 19:10:41.862730, OSCILLOGRAPHY TRIG'D  
2313, C60, 189, Dec 18 2022 19:10:41.862730, Osc\_Trigger On  
2314, C60, 188, Dec 17 2022 18:43:48.290769, Osc\_Trigger Off  
2315, C60, 187, Dec 17 2022 18:43:48.288263, OSCILLOGRAPHY TRIG'D  
2316, C60, 186, Dec 17 2022 18:43:48.288263, Osc\_Trigger On  
2317, C60, 185, Dec 17 2022 18:43:33.806224, Osc\_Trigger Off  
2318, C60, 184, Dec 17 2022 18:43:33.803733, OSCILLOGRAPHY TRIG'D  
2319, C60, 183, Dec 17 2022 18:43:33.803733, Osc\_Trigger On  
2320, C60, 182, Dec 17 2022 18:27:58.958114, Osc\_Trigger Off  
2321, C60, 181, Dec 17 2022 18:27:58.955621, OSCILLOGRAPHY TRIG'D  
2322, C60, 180, Dec 17 2022 18:27:58.955621, Osc\_Trigger On  
2323, C60, 179, Dec 17 2022 18:17:12.103139, Osc\_Trigger Off  
2324, C60, 178, Dec 17 2022 18:17:12.100642, OSCILLOGRAPHY TRIG'D  
2325, C60, 177, Dec 17 2022 18:17:12.100642, Osc\_Trigger On  
2326, C60, 176, Dec 17 2022 18:16:59.772171, Osc\_Trigger Off  
2327, C60, 175, Dec 17 2022 18:16:59.769678, OSCILLOGRAPHY TRIG'D  
2328, C60, 174, Dec 17 2022 18:16:59.769678, Osc\_Trigger On  
2329, C60, 173, Dec 16 2022 16:00:55.046065, Osc\_Trigger Off  
2330, C60, 172, Dec 16 2022 16:00:55.043571, OSCILLOGRAPHY TRIG'D  
2331, C60, 171, Dec 16 2022 16:00:55.043571, Osc\_Trigger On  
2332, C60, 170, Dec 16 2022 14:39:34.172921, Osc\_Trigger Off  
2333, C60, 169, Dec 16 2022 14:39:34.170422, OSCILLOGRAPHY TRIG'D  
2334, C60, 168, Dec 16 2022 14:39:34.170422, Osc\_Trigger On  
2335, C60, 167, Dec 16 2022 12:47:54.006463, Osc\_Trigger Off  
2336, C60, 166, Dec 16 2022 12:47:54.003965, OSCILLOGRAPHY TRIG'D  
2337, C60, 165, Dec 16 2022 12:47:54.003965, Osc\_Trigger On  
2338, C60, 164, Dec 13 2022 12:56:53.518336, Osc\_Trigger Off  
2339, C60, 163, Dec 13 2022 12:56:53.515832, OSCILLOGRAPHY TRIG'D  
2340, C60, 162, Dec 13 2022 12:56:53.515832, Osc\_Trigger On  
2341, C60, 161, Dec 11 2022 18:31:51.466306, Osc\_Trigger Off  
2342, C60, 160, Dec 11 2022 18:31:51.463817, OSCILLOGRAPHY TRIG'D  
2343, C60, 159, Dec 11 2022 18:31:51.463817, Osc\_Trigger On  
2344, C60, 158, Dec 11 2022 18:31:39.526467, Osc\_Trigger Off  
2345, C60, 157, Dec 11 2022 18:31:39.523978, OSCILLOGRAPHY TRIG'D

2346, C60, 156, Dec 11 2022 18:31:39.523978, Osc\_Trigger On  
2347, C60, 155, Dec 10 2022 16:27:41.742220, Osc\_Trigger Off  
2348, C60, 154, Dec 10 2022 16:27:41.739718, OSCILLOGRAPHY TRIG'D  
2349, C60, 153, Dec 10 2022 16:27:41.739718, Osc\_Trigger On  
2350, C60, 152, Dec 02 2022 20:42:01.915073, CC\_RESTM1 Off  
2351, C60, 151, Dec 02 2022 20:11:40.880383, CC\_RESTM1 On  
2352, D60, 38679, Nov 28 2022 19:16:31.357729, PH DIR2 BLK A  
2353, D60, 38678, Nov 28 2022 19:16:30.885530, PH DIR2 BLK A  
2354, C60, 150, Nov 23 2022 18:56:16.547588, Osc\_Trigger Off  
2355, C60, 149, Nov 23 2022 18:56:16.545088, OSCILLOGRAPHY TRIG'D  
2356, C60, 148, Nov 23 2022 18:56:16.545088, Osc\_Trigger On  
2357, C60, 147, Nov 20 2022 13:30:17.374535, Osc\_Trigger Off  
2358, C60, 146, Nov 20 2022 13:30:17.372032, OSCILLOGRAPHY TRIG'D  
2359, C60, 145, Nov 20 2022 13:30:17.372032, Osc\_Trigger On  
2360, C60, 144, Nov 17 2022 03:20:46.036194, Osc\_Trigger Off  
2361, C60, 143, Nov 17 2022 03:20:46.033696, OSCILLOGRAPHY TRIG'D  
2362, C60, 142, Nov 17 2022 03:20:46.033696, Osc\_Trigger On  
2363, D60, 38677, Nov 17 2022 03:20:46.020322, PH DIR2 BLK C  
2364, C60, 141, Nov 17 2022 03:20:45.961199, Osc\_Trigger Off  
2365, C60, 140, Nov 17 2022 03:20:45.958700, OSCILLOGRAPHY TRIG'D  
2366, C60, 139, Nov 17 2022 03:20:45.958700, Osc\_Trigger On  
2367, C60, 138, Nov 15 2022 00:37:52.723301, Osc\_Trigger Off  
2368, C60, 137, Nov 15 2022 00:37:52.720795, OSCILLOGRAPHY TRIG'D  
2369, C60, 136, Nov 15 2022 00:37:52.720795, Osc\_Trigger On  
2370, C60, 135, Nov 15 2022 00:37:52.630793, Osc\_Trigger Off  
2371, C60, 134, Nov 15 2022 00:37:52.628294, OSCILLOGRAPHY TRIG'D  
2372, C60, 133, Nov 15 2022 00:37:52.628294, Osc\_Trigger On  
2373, C60, 132, Nov 15 2022 00:31:40.451791, Osc\_Trigger Off  
2374, C60, 131, Nov 15 2022 00:31:40.449286, OSCILLOGRAPHY TRIG'D  
2375, C60, 130, Nov 15 2022 00:31:40.449286, Osc\_Trigger On  
2376, C60, 129, Nov 15 2022 00:31:40.351544, Osc\_Trigger Off  
2377, C60, 128, Nov 15 2022 00:31:40.349040, OSCILLOGRAPHY TRIG'D  
2378, C60, 127, Nov 15 2022 00:31:40.349040, Osc\_Trigger On  
2379, C60, 126, Nov 06 2022 12:20:25.359874, RESET OP(PUSHBUTTON)  
2380, C60, 125, Nov 06 2022 12:20:19.917203, CB2\_RESFLT Off  
2381, C60, 124, Nov 06 2022 12:20:10.916048, CB2\_RESFLT On  
2382, D60, 38676, Nov 06 2022 12:20:03.155842, RESET OP(PUSHBUTTON)  
2383, C60, 123, Nov 06 2022 12:19:09.005404, CB2\_RESFLT Off  
2384, D60, 38675, Nov 06 2022 12:19:08.911925, PHASE TOC2 DPO B  
2385, D60, 38674, Nov 06 2022 12:19:08.911925, PHASE TOC1 DPO B  
2386, D60, 38673, Nov 06 2022 12:19:08.851873, PHASE TOC2 DPO A  
2387, D60, 38672, Nov 06 2022 12:19:08.851873, PHASE TOC1 DPO A  
2388, D60, 38671, Nov 06 2022 12:19:08.761825, PHASE TOC2 DPO C  
2389, D60, 38670, Nov 06 2022 12:19:08.761825, PHASE TOC1 DPO C  
2390, D60, 38669, Nov 06 2022 12:19:08.746819, PHASE IOC1 DPO B  
2391, D60, 38668, Nov 06 2022 12:19:08.741815, PHASE TOC2 PKP C  
2392, D60, 38667, Nov 06 2022 12:19:08.741815, PHASE TOC2 PKP A  
2393, D60, 38666, Nov 06 2022 12:19:08.741815, PHASE TOC1 PKP C  
2394, D60, 38665, Nov 06 2022 12:19:08.741815, PHASE TOC1 PKP A  
2395, D60, 38664, Nov 06 2022 12:19:08.741815, GROUND TOC1 DPO

2396, C60, 122, Nov 06 2022 12:19:08.740166, 52T\_CLOSE\_L Off  
2397, D60, 38663, Nov 06 2022 12:19:08.731810, PHASE TOC2 PKP B  
2398, D60, 38662, Nov 06 2022 12:19:08.731810, PHASE TOC1 PKP B  
2399, D60, 38661, Nov 06 2022 12:19:08.731810, GROUND TOC1 PKP  
2400, D60, 38660, Nov 06 2022 12:19:08.726808, PHASE IOC1 PKP B  
2401, C60, 121, Nov 06 2022 12:19:08.717651, CB2\_RESFLT On  
2402, C60, 120, Nov 06 2022 12:19:08.717651, Osc\_Trigger Off  
2403, D60, 38659, Nov 06 2022 12:19:08.716801, PH DIR2 BLK A  
2404, C60, 119, Nov 06 2022 12:19:08.715148, OSCILLOGRAPHY TRIG'D  
2405, C60, 118, Nov 06 2022 12:19:08.715148, Osc\_Trigger On  
2406, D60, 38658, Nov 06 2022 12:19:08.714299, PH DIR2 BLK C  
2407, D60, 38657, Nov 06 2022 12:19:08.714299, PH DIR2 BLK B  
2408, C60, 117, Nov 06 2022 12:19:08.710144, BREAKER 1 OPEN  
2409, D60, 38656, Nov 06 2022 12:19:08.706402, 52HT\_CERRADO On  
2410, C60, 116, Nov 06 2022 12:19:08.690128, BREAKER 1 [A] INTERM  
2411, D60, 38655, Nov 06 2022 12:19:08.687402, 52HT\_ABIERTO Off  
2412, C60, 115, Nov 06 2022 12:19:08.637589, 52T\_CLOSE\_L On  
2413, C60, 114, Nov 06 2022 12:19:08.637589, BREAKER 1 MNL CLS  
2414, C60, 113, Nov 06 2022 12:19:08.637589, BREAKER 1 ON CMD  
2415, C60, 112, Nov 06 2022 11:32:23.301544, 891T\_27LINEA Off  
2416, C60, 111, Nov 06 2022 11:32:23.301544, SYNC 1 CLS DPO  
2417, C60, 110, Nov 06 2022 11:32:23.301544, SYNC 1 DEAD S DPO  
2418, C60, 109, Nov 06 2022 09:39:38.420035, CB2\_RESFLT Off  
2419, C60, 108, Nov 06 2022 09:39:19.397249, CB2\_RESFLT On  
2420, C60, 107, Nov 06 2022 09:39:18.118931, 891T\_27LINEA On  
2421, C60, 106, Nov 06 2022 09:39:18.118931, SYNC 1 CLS OP  
2422, C60, 105, Nov 06 2022 09:39:18.118931, SYNC 1 DEAD S OP  
2423, C60, 104, Nov 06 2022 09:39:18.078884, 891T\_27LINEA Off  
2424, C60, 103, Nov 06 2022 09:39:18.078884, SYNC 1 CLS DPO  
2425, C60, 102, Nov 06 2022 09:39:18.078884, SYNC 1 DEAD S DPO  
2426, D60, 38654, Nov 06 2022 09:39:18.065270, 52T\_TRIP2 Off  
2427, D60, 38653, Nov 06 2022 09:39:18.065270, 52T\_TRIP1 Off  
2428, D60, 38652, Nov 06 2022 09:39:18.065270, PHASE TOC2 DPO C  
2429, D60, 38651, Nov 06 2022 09:39:18.065270, PHASE TOC2 DPO A  
2430, D60, 38650, Nov 06 2022 09:39:18.065270, PHASE TOC1 DPO C  
2431, D60, 38649, Nov 06 2022 09:39:18.065270, PHASE TOC1 DPO A  
2432, D60, 38648, Nov 06 2022 09:39:18.065270, GROUND TOC1 DPO  
2433, D60, 38647, Nov 06 2022 09:39:18.055253, PHASE TOC2 DPO B  
2434, D60, 38646, Nov 06 2022 09:39:18.055253, PHASE TOC1 DPO B  
2435, D60, 38645, Nov 06 2022 09:39:18.055253, PHASE IOC1 DPO C  
2436, D60, 38644, Nov 06 2022 09:39:18.052749, PHASE IOC1 DPO A  
2437, D60, 38643, Nov 06 2022 09:39:18.050244, PHASE IOC1 DPO B  
2438, C60, 101, Nov 06 2022 09:39:18.048839, BREAKER 1 CLOSED  
2439, D60, 38642, Nov 06 2022 09:39:18.047742, GND DIST Z3 DPO C  
2440, C60, 100, Nov 06 2022 09:39:18.046334, Osc\_Trigger Off  
2441, D60, 38641, Nov 06 2022 09:39:18.044802, 52HT\_ABIERTO On  
2442, C60, 99, Nov 06 2022 09:39:18.043830, QP\_Abfd60 Off  
2443, C60, 98, Nov 06 2022 09:39:18.043830, OSCILLOGRAPHY TRIG'D  
2444, C60, 97, Nov 06 2022 09:39:18.043830, Osc\_Trigger On  
2445, D60, 38640, Nov 06 2022 09:39:18.039299, QP\_Abfd60 Off



2446, D60, 38639, Nov 06 2022 09:39:18.035221, PHASE TOC2 OP C  
2447, D60, 38638, Nov 06 2022 09:39:18.032716, ABF\_T60 Off  
2448, C60, 96, Nov 06 2022 09:39:18.031306, BREAKER 1 I A INTERM  
2449, D60, 38637, Nov 06 2022 09:39:18.028295, 52HT\_CERRADO Off  
2450, D60, 38636, Nov 06 2022 09:39:18.020195, BKR FAIL 1 TRIP OP  
2451, C60, 95, Nov 06 2022 09:39:18.001254, QP\_ABFD60 On  
2452, D60, 38635, Nov 06 2022 09:39:17.996759, QP\_ABFD60 On  
2453, D60, 38634, Nov 06 2022 09:39:17.995136, PHASE IOC1 OP B  
2454, D60, 38633, Nov 06 2022 09:39:17.992631, ABF\_T60 On  
2455, D60, 38632, Nov 06 2022 09:39:17.992631, PHASE IOC1 OP A  
2456, D60, 38631, Nov 06 2022 09:39:17.990127, 52T\_TRIP2 On  
2457, D60, 38630, Nov 06 2022 09:39:17.990127, 52T\_TRIP1 On  
2458, D60, 38629, Nov 06 2022 09:39:17.990127, PHASE IOC1 OP C  
2459, C60, 94, Nov 06 2022 09:39:17.878515, 891T\_27LINEA On  
2460, C60, 93, Nov 06 2022 09:39:17.878515, SYNC 1 CLS OP  
2461, C60, 92, Nov 06 2022 09:39:17.878515, SYNC 1 DEAD S OP  
2462, C60, 91, Nov 06 2022 09:39:17.818409, 891T\_27LINEA Off  
2463, C60, 90, Nov 06 2022 09:39:17.818409, SYNC 1 CLS DPO  
2464, C60, 89, Nov 06 2022 09:39:17.818409, SYNC 1 DEAD S DPO  
2465, D60, 38628, Nov 06 2022 09:39:17.679820, Osc\_Trigger Off  
2466, D60, 38627, Nov 06 2022 09:39:17.677321, OSCILLOGRAPHY TRIG'D  
2467, D60, 38626, Nov 06 2022 09:39:17.677321, Osc\_Trigger On  
2468, D60, 38625, Nov 06 2022 09:39:17.677321, GND DIST Z3 PKP C  
2469, D60, 38624, Nov 06 2022 09:39:17.664817, PHASE TOC2 PKP C  
2470, D60, 38623, Nov 06 2022 09:39:17.664817, PHASE TOC2 PKP B  
2471, D60, 38622, Nov 06 2022 09:39:17.664817, PHASE TOC2 PKP A  
2472, D60, 38621, Nov 06 2022 09:39:17.664817, PHASE TOC1 PKP C  
2473, D60, 38620, Nov 06 2022 09:39:17.664817, PHASE TOC1 PKP B  
2474, D60, 38619, Nov 06 2022 09:39:17.664817, PHASE TOC1 PKP A  
2475, D60, 38618, Nov 06 2022 09:39:17.664817, GROUND TOC1 PKP  
2476, D60, 38617, Nov 06 2022 09:39:17.664817, PHASE IOC1 PKP B  
2477, D60, 38616, Nov 06 2022 09:39:17.662315, PHASE IOC1 PKP A  
2478, D60, 38615, Nov 06 2022 09:39:17.659814, PHASE IOC1 PKP C  
2479, C60, 88, Nov 06 2022 09:39:17.658156, 891T\_27LINEA On  
2480, C60, 87, Nov 06 2022 09:39:17.658156, SYNC 1 CLS OP  
2481, C60, 86, Nov 06 2022 09:39:17.658156, SYNC 1 DEAD S OP  
2482, D60, 38614, Nov 06 2022 09:39:17.652308, PH DIR2 BLK A  
2483, D60, 38613, Nov 06 2022 09:39:17.652308, NTRL DIR OC1 FWD  
2484, C60, 85, Nov 06 2022 09:39:17.648153, Osc\_Trigger Off  
2485, C60, 84, Nov 06 2022 09:39:17.645651, OSCILLOGRAPHY TRIG'D  
2486, C60, 83, Nov 06 2022 09:39:17.645651, Osc\_Trigger On  
2487, D60, 38612, Nov 06 2022 09:39:17.644799, PH DIR2 BLK B  
2488, D60, 38611, Oct 31 2022 01:02:25.726227, PH DIR2 BLK B  
2489, D60, 38610, Oct 31 2022 01:02:21.962470, PH DIR2 BLK B  
2490, C60, 82, Oct 27 2022 22:05:42.552378, Osc\_Trigger Off  
2491, C60, 81, Oct 27 2022 22:05:42.549883, OSCILLOGRAPHY TRIG'D  
2492, C60, 80, Oct 27 2022 22:05:42.549883, Osc\_Trigger On  
2493, D60, 38609, Oct 27 2022 22:05:42.491698, PH DIR2 BLK A  
2494, C60, 79, Oct 27 2022 22:05:42.480071, Osc\_Trigger Off  
2495, C60, 78, Oct 27 2022 22:05:42.477579, OSCILLOGRAPHY TRIG'D

2496, C60, 77, Oct 27 2022 22:05:42.477579, Osc\_Trigger On  
2497, D60, 38608, Oct 27 2022 22:05:42.474245, PH DIR2 BLK B  
2498, C60, 76, Oct 25 2022 22:54:50.727058, Osc\_Trigger Off  
2499, C60, 75, Oct 25 2022 22:54:50.724562, OSCILLOGRAPHY TRIG'D  
2500, C60, 74, Oct 25 2022 22:54:50.724562, Osc\_Trigger On  
2501, C60, 73, Oct 25 2022 22:54:50.652217, Osc\_Trigger Off  
2502, C60, 72, Oct 25 2022 22:54:50.649722, OSCILLOGRAPHY TRIG'D  
2503, C60, 71, Oct 25 2022 22:54:50.649722, Osc\_Trigger On  
2504, D60, 38607, Oct 25 2022 22:54:50.643876, PH DIR2 BLK B  
2505, C60, 70, Oct 25 2022 14:39:24.927511, Osc\_Trigger Off  
2506, C60, 69, Oct 25 2022 14:39:24.925000, OSCILLOGRAPHY TRIG'D  
2507, C60, 68, Oct 25 2022 14:39:24.925000, Osc\_Trigger On  
2508, C60, 67, Oct 18 2022 21:35:20.840288, Osc\_Trigger Off  
2509, C60, 66, Oct 18 2022 21:35:20.837792, OSCILLOGRAPHY TRIG'D  
2510, C60, 65, Oct 18 2022 21:35:20.837792, Osc\_Trigger On  
2511, D60, 38606, Oct 18 2022 21:20:35.755119, PH DIR2 BLK B  
2512, D60, 38605, Oct 18 2022 21:20:35.672756, PH DIR2 BLK B  
2513, D60, 38604, Oct 18 2022 21:20:35.038855, PH DIR2 BLK B  
2514, D60, 38603, Oct 18 2022 21:20:32.957114, PH DIR2 BLK A  
2515, D60, 38602, Oct 18 2022 21:20:31.691578, PH DIR2 BLK A  
2516, D60, 38601, Oct 18 2022 21:20:31.611695, PH DIR2 BLK A  
2517, D60, 38600, Oct 18 2022 21:20:31.536812, PH DIR2 BLK A  
2518, D60, 38599, Oct 18 2022 21:20:31.469420, PH DIR2 BLK A  
2519, D60, 38598, Oct 18 2022 21:20:31.257262, PH DIR2 BLK C  
2520, D60, 38597, Oct 18 2022 21:20:31.219815, PH DIR2 BLK C  
2521, D60, 38596, Oct 18 2022 21:20:31.192355, PH DIR2 BLK C  
2522, D60, 38595, Oct 18 2022 21:20:31.172387, PH DIR2 BLK A  
2523, D60, 38594, Oct 18 2022 21:20:31.112489, PH DIR2 BLK A  
2524, D60, 38593, Oct 18 2022 21:20:30.850401, PH DIR2 BLK A  
2525, D60, 38592, Oct 18 2022 21:20:30.623281, PH DIR2 BLK C  
2526, D60, 38591, Oct 18 2022 21:20:30.623281, PH DIR2 BLK A  
2527, D60, 38590, Oct 18 2022 21:20:30.538411, PH DIR2 BLK C  
2528, D60, 38589, Oct 18 2022 21:20:30.523435, PH DIR2 BLK A  
2529, D60, 38588, Oct 18 2022 21:20:30.473522, PH DIR2 BLK C  
2530, D60, 38587, Oct 18 2022 21:20:30.463539, PH DIR2 BLK A  
2531, D60, 38586, Oct 18 2022 21:20:30.393662, PH DIR2 BLK C  
2532, D60, 38585, Oct 18 2022 21:20:30.383680, PH DIR2 BLK A  
2533, D60, 38584, Oct 18 2022 21:20:30.326283, PH DIR2 BLK C  
2534, D60, 38583, Oct 18 2022 21:20:30.248920, PH DIR2 BLK A  
2535, D60, 38582, Oct 18 2022 21:20:30.169051, PH DIR2 BLK A  
2536, D60, 38581, Oct 18 2022 21:20:30.099176, PH DIR2 BLK A  
2537, D60, 38580, Oct 18 2022 21:20:30.096675, PH DIR2 BLK C  
2538, D60, 38579, Oct 18 2022 21:20:30.046762, PH DIR2 BLK C  
2539, D60, 38578, Oct 18 2022 21:20:30.041775, PH DIR2 BLK A  
2540, D60, 38577, Oct 18 2022 21:20:30.024306, PH DIR2 BLK A  
2541, D60, 38576, Oct 18 2022 21:20:29.974375, PH DIR2 BLK C  
2542, D60, 38575, Oct 18 2022 21:20:29.971880, PH DIR2 BLK A  
2543, D60, 38574, Oct 18 2022 21:20:29.914486, PH DIR2 BLK C  
2544, D60, 38573, Oct 18 2022 21:20:29.909497, PH DIR2 BLK A  
2545, D60, 38572, Oct 18 2022 21:20:29.832142, PH DIR2 BLK C

2546, D60, 38571, Oct 18 2022 21:20:29.809683, PH DIR2 BLK A  
2547, D60, 38570, Oct 18 2022 21:20:29.779736, PH DIR2 BLK A  
2548, D60, 38569, Oct 18 2022 21:20:29.762270, PH DIR2 BLK A  
2549, D60, 38568, Oct 18 2022 21:20:29.757280, PH DIR2 BLK C  
2550, D60, 38567, Oct 18 2022 21:20:29.677428, PH DIR2 BLK C  
2551, D60, 38566, Oct 18 2022 21:20:29.674933, PH DIR2 BLK A  
2552, D60, 38565, Oct 18 2022 21:20:29.605066, PH DIR2 BLK C  
2553, D60, 38564, Oct 18 2022 21:20:29.602570, PH DIR2 BLK A  
2554, D60, 38563, Oct 18 2022 21:20:29.555161, PH DIR2 BLK C  
2555, D60, 38562, Oct 18 2022 21:20:29.550169, PH DIR2 BLK A  
2556, D60, 38561, Oct 18 2022 21:20:29.467828, PH DIR2 BLK C  
2557, D60, 38560, Oct 18 2022 21:20:29.455351, PH DIR2 BLK A  
2558, D60, 38559, Oct 18 2022 21:20:29.385487, PH DIR2 BLK C  
2559, D60, 38558, Oct 18 2022 21:20:29.385487, PH DIR2 BLK A  
2560, D60, 38557, Oct 18 2022 21:20:29.333089, PH DIR2 BLK C  
2561, D60, 38556, Oct 18 2022 21:20:29.323107, PH DIR2 BLK A  
2562, D60, 38555, Oct 18 2022 21:20:29.288177, PH DIR2 BLK C  
2563, D60, 38554, Oct 18 2022 21:20:29.253244, PH DIR2 BLK C  
2564, D60, 38553, Oct 18 2022 21:20:29.253244, PH DIR2 BLK A  
2565, D60, 38552, Oct 18 2022 21:20:29.183380, PH DIR2 BLK A  
2566, D60, 38551, Oct 18 2022 21:20:29.175895, PH DIR2 BLK C  
2567, D60, 38550, Oct 18 2022 21:20:29.123498, PH DIR2 BLK C  
2568, D60, 38549, Oct 18 2022 21:20:29.106036, PH DIR2 BLK C  
2569, D60, 38548, Oct 18 2022 21:20:29.103540, PH DIR2 BLK A  
2570, D60, 38547, Oct 18 2022 21:20:29.028695, PH DIR2 BLK C  
2571, D60, 38546, Oct 18 2022 21:20:29.026199, PH DIR2 BLK A  
2572, D60, 38545, Oct 18 2022 21:20:28.946332, PH DIR2 BLK C  
2573, D60, 38544, Oct 18 2022 21:20:28.878960, PH DIR2 BLK C  
2574, D60, 38543, Oct 18 2022 21:20:28.866487, PH DIR2 BLK A  
2575, D60, 38542, Oct 18 2022 21:20:28.814089, PH DIR2 BLK C  
2576, D60, 38541, Oct 18 2022 21:20:28.814089, PH DIR2 BLK A  
2577, D60, 38540, Oct 18 2022 21:20:28.766687, PH DIR2 BLK C  
2578, D60, 38539, Oct 18 2022 21:20:28.764191, PH DIR2 BLK A  
2579, D60, 38538, Oct 18 2022 21:20:28.659403, PH DIR2 BLK C  
2580, D60, 38537, Oct 18 2022 21:20:28.602017, PH DIR2 BLK C  
2581, D60, 38536, Oct 18 2022 21:20:28.587049, PH DIR2 BLK A  
2582, D60, 38535, Oct 18 2022 21:20:28.489762, PH DIR2 BLK C  
2583, D60, 38534, Oct 18 2022 21:20:28.464799, PH DIR2 BLK A  
2584, D60, 38533, Oct 18 2022 21:20:28.459807, PH DIR2 BLK C  
2585, D60, 38532, Oct 18 2022 21:20:28.444838, PH DIR2 BLK A  
2586, D60, 38531, Oct 18 2022 21:20:28.387457, PH DIR2 BLK C  
2587, D60, 38530, Oct 18 2022 21:20:28.317605, PH DIR2 BLK C  
2588, D60, 38529, Oct 18 2022 21:20:28.315109, PH DIR2 BLK A  
2589, D60, 38528, Oct 18 2022 21:20:28.267719, PH DIR2 BLK C  
2590, D60, 38527, Oct 18 2022 21:20:28.262723, PH DIR2 BLK A  
2591, D60, 38526, Oct 18 2022 21:20:28.242764, PH DIR2 BLK A  
2592, D60, 38525, Oct 18 2022 21:20:28.182896, PH DIR2 BLK C  
2593, D60, 38524, Oct 18 2022 21:20:28.170423, PH DIR2 BLK A  
2594, D60, 38523, Oct 18 2022 21:20:28.108060, PH DIR2 BLK C  
2595, D60, 38522, Oct 18 2022 21:20:28.023235, PH DIR2 BLK C

2596, D60, 38521, Oct 18 2022 21:20:27.968330, PH DIR2 BLK C  
2597, D60, 38520, Oct 18 2022 21:20:27.965836, PH DIR2 BLK A  
2598, D60, 38519, Oct 18 2022 21:20:27.948371, PH DIR2 BLK A  
2599, D60, 38518, Oct 18 2022 21:20:27.925917, PH DIR2 BLK C  
2600, D60, 38517, Oct 18 2022 21:20:27.900972, PH DIR2 BLK C  
2601, D60, 38516, Oct 18 2022 21:20:27.895983, PH DIR2 BLK A  
2602, D60, 38515, Oct 18 2022 21:20:27.876027, PH DIR2 BLK C  
2603, D60, 38514, Oct 18 2022 21:20:27.738827, PH DIR2 BLK C  
2604, D60, 38513, Oct 18 2022 21:20:27.698913, PH DIR2 BLK C  
2605, D60, 38512, Oct 18 2022 21:20:27.696420, PH DIR2 BLK A  
2606, D60, 38511, Oct 18 2022 21:20:27.671474, PH DIR2 BLK C  
2607, D60, 38510, Oct 18 2022 21:20:27.599135, PH DIR2 BLK C  
2608, D60, 38509, Oct 18 2022 21:20:27.594145, PH DIR2 BLK A  
2609, D60, 38508, Oct 18 2022 21:20:27.534277, PH DIR2 BLK C  
2610, D60, 38507, Oct 18 2022 21:20:27.519311, PH DIR2 BLK A  
2611, D60, 38506, Oct 18 2022 21:20:27.459447, PH DIR2 BLK C  
2612, D60, 38505, Oct 18 2022 21:20:27.449486, PH DIR2 BLK A  
2613, D60, 38504, Oct 18 2022 21:20:27.392106, PH DIR2 BLK C  
2614, D60, 38503, Oct 18 2022 21:20:27.379635, PH DIR2 BLK A  
2615, D60, 38502, Oct 18 2022 21:20:27.307299, PH DIR2 BLK C  
2616, D60, 38501, Oct 18 2022 21:20:27.304804, PH DIR2 BLK A  
2617, D60, 38500, Oct 18 2022 21:20:27.220003, PH DIR2 BLK C  
2618, D60, 38499, Oct 18 2022 21:20:27.102781, PH DIR2 BLK C  
2619, D60, 38498, Oct 18 2022 21:20:27.100287, PH DIR2 BLK A  
2620, D60, 38497, Oct 18 2022 21:20:27.032950, PH DIR2 BLK C  
2621, D60, 38496, Oct 18 2022 21:20:27.032950, PH DIR2 BLK A  
2622, D60, 38495, Oct 18 2022 21:20:26.978061, PH DIR2 BLK C  
2623, D60, 38494, Oct 18 2022 21:20:26.975566, PH DIR2 BLK A  
2624, D60, 38493, Oct 18 2022 21:20:26.930675, PH DIR2 BLK C  
2625, D60, 38492, Oct 18 2022 21:20:26.900742, PH DIR2 BLK C  
2626, D60, 38491, Oct 18 2022 21:20:26.888273, PH DIR2 BLK C  
2627, D60, 38490, Oct 18 2022 21:20:26.878297, PH DIR2 BLK A  
2628, D60, 38489, Oct 18 2022 21:20:26.830910, PH DIR2 BLK C  
2629, D60, 38488, Oct 18 2022 21:20:26.828415, PH DIR2 BLK A  
2630, D60, 38487, Oct 18 2022 21:20:26.781029, PH DIR2 BLK C  
2631, D60, 38486, Oct 18 2022 21:20:26.778538, PH DIR2 BLK A  
2632, D60, 38485, Oct 18 2022 21:20:26.676278, PH DIR2 BLK C  
2633, D60, 38484, Oct 18 2022 21:20:26.598964, PH DIR2 BLK C  
2634, D60, 38483, Oct 18 2022 21:20:26.591483, PH DIR2 BLK A  
2635, D60, 38482, Oct 18 2022 21:20:26.556578, PH DIR2 BLK A  
2636, D60, 38481, Oct 18 2022 21:20:26.479269, PH DIR2 BLK C  
2637, D60, 38480, Oct 18 2022 21:20:26.476774, PH DIR2 BLK A  
2638, D60, 38479, Oct 18 2022 21:20:26.399452, PH DIR2 BLK A  
2639, D60, 38478, Oct 18 2022 21:20:26.394461, PH DIR2 BLK C  
2640, D60, 38477, Oct 18 2022 21:20:26.314654, PH DIR2 BLK C  
2641, D60, 38476, Oct 18 2022 21:20:26.307180, PH DIR2 BLK A  
2642, D60, 38475, Oct 18 2022 21:20:26.242335, PH DIR2 BLK C  
2643, D60, 38474, Oct 18 2022 21:20:26.229867, PH DIR2 BLK A  
2644, D60, 38473, Oct 18 2022 21:20:26.182479, PH DIR2 BLK C  
2645, D60, 38472, Oct 18 2022 21:20:26.160035, PH DIR2 BLK A

2646, D60, 38471, Oct 18 2022 21:20:25.992925, PH DIR2 BLK C  
2647, D60, 38470, Oct 18 2022 21:20:25.972977, PH DIR2 BLK A  
2648, C60, 64, Oct 09 2022 03:33:36.162459, Osc\_Trigger Off  
2649, C60, 63, Oct 09 2022 03:33:36.159950, OSCILLOGRAPHY TRIG'D  
2650, C60, 62, Oct 09 2022 03:33:36.159950, Osc\_Trigger On  
2651, C60, 61, Oct 07 2022 02:23:31.059415, Osc\_Trigger Off  
2652, C60, 60, Oct 07 2022 02:23:31.056911, OSCILLOGRAPHY TRIG'D  
2653, C60, 59, Oct 07 2022 02:23:31.056911, Osc\_Trigger On  
2654, C60, 58, Oct 01 2022 02:03:15.875615, Osc\_Trigger Off  
2655, C60, 57, Oct 01 2022 02:03:15.873115, OSCILLOGRAPHY TRIG'D  
2656, C60, 56, Oct 01 2022 02:03:15.873115, Osc\_Trigger On  
2657, C60, 55, Oct 01 2022 02:03:15.117703, Osc\_Trigger Off  
2658, C60, 54, Oct 01 2022 02:03:15.115202, OSCILLOGRAPHY TRIG'D  
2659, C60, 53, Oct 01 2022 02:03:15.115202, Osc\_Trigger On  
2660, C60, 52, Sep 30 2022 10:21:56.090226, Osc\_Trigger Off  
2661, C60, 51, Sep 30 2022 10:21:56.087722, OSCILLOGRAPHY TRIG'D  
2662, C60, 50, Sep 30 2022 10:21:56.087722, Osc\_Trigger On  
2663, C60, 49, Sep 27 2022 12:40:15.194986, Osc\_Trigger Off  
2664, C60, 48, Sep 27 2022 12:40:15.192491, OSCILLOGRAPHY TRIG'D  
2665, C60, 47, Sep 27 2022 12:40:15.192491, Osc\_Trigger On  
2666, C60, 46, Sep 26 2022 10:22:42.826082, Osc\_Trigger Off  
2667, C60, 45, Sep 26 2022 10:22:42.823582, OSCILLOGRAPHY TRIG'D  
2668, C60, 44, Sep 26 2022 10:22:42.823582, Osc\_Trigger On  
2669, C60, 43, Sep 18 2022 20:46:31.556457, Osc\_Trigger Off  
2670, C60, 42, Sep 18 2022 20:46:31.553960, OSCILLOGRAPHY TRIG'D  
2671, C60, 41, Sep 18 2022 20:46:31.553960, Osc\_Trigger On  
2672, C60, 40, Sep 18 2022 20:46:31.179831, Osc\_Trigger Off  
2673, C60, 39, Sep 18 2022 20:46:31.177336, OSCILLOGRAPHY TRIG'D  
2674, C60, 38, Sep 18 2022 20:46:31.177336, Osc\_Trigger On  
2675, C60, 37, Sep 18 2022 20:46:31.047639, Osc\_Trigger Off  
2676, C60, 36, Sep 18 2022 20:46:31.045144, OSCILLOGRAPHY TRIG'D  
2677, C60, 35, Sep 18 2022 20:46:31.045144, Osc\_Trigger On  
2678, C60, 34, Sep 16 2022 19:07:21.864332, Osc\_Trigger Off  
2679, C60, 33, Sep 16 2022 19:07:21.861835, OSCILLOGRAPHY TRIG'D  
2680, C60, 32, Sep 16 2022 19:07:21.861835, Osc\_Trigger On  
2681, C60, 31, Sep 16 2022 19:07:21.771990, Osc\_Trigger Off  
2682, C60, 30, Sep 16 2022 19:07:21.769494, OSCILLOGRAPHY TRIG'D  
2683, C60, 29, Sep 16 2022 19:07:21.769494, Osc\_Trigger On  
2684, C60, 28, Sep 13 2022 17:27:59.498905, Osc\_Trigger Off  
2685, C60, 27, Sep 13 2022 17:27:59.496411, OSCILLOGRAPHY TRIG'D  
2686, C60, 26, Sep 13 2022 17:27:59.496411, Osc\_Trigger On  
2687, C60, 25, Sep 08 2022 16:10:21.135299, Osc\_Trigger Off  
2688, C60, 24, Sep 08 2022 16:10:21.132791, OSCILLOGRAPHY TRIG'D  
2689, C60, 23, Sep 08 2022 16:10:21.132791, Osc\_Trigger On  
2690, C60, 22, Sep 08 2022 16:10:21.077766, Osc\_Trigger Off  
2691, C60, 21, Sep 08 2022 16:10:21.075266, OSCILLOGRAPHY TRIG'D  
2692, C60, 20, Sep 08 2022 16:10:21.075266, Osc\_Trigger On  
2693, C60, 19, Sep 03 2022 00:58:31.241249, Osc\_Trigger Off  
2694, C60, 18, Sep 03 2022 00:58:31.238743, OSCILLOGRAPHY TRIG'D  
2695, C60, 17, Sep 03 2022 00:58:31.238743, Osc\_Trigger On



2696, C60, 16, Aug 28 2022 21:52:47.160091, Osc\_Trigger Off  
2697, C60, 15, Aug 28 2022 21:52:47.157587, OSCILLOGRAPHY TRIG'D  
2698, C60, 14, Aug 28 2022 21:52:47.157587, Osc\_Trigger On  
2699, C60, 13, Aug 28 2022 18:26:57.349540, Osc\_Trigger Off  
2700, C60, 12, Aug 28 2022 18:26:57.347035, OSCILLOGRAPHY TRIG'D  
2701, C60, 11, Aug 28 2022 18:26:57.347035, Osc\_Trigger On  
2702, C60, 10, Aug 28 2022 18:21:12.724716, Osc\_Trigger Off  
2703, C60, 9, Aug 28 2022 18:21:12.722220, OSCILLOGRAPHY TRIG'D  
2704, C60, 8, Aug 28 2022 18:21:12.722220, Osc\_Trigger On  
2705, C60, 7, Aug 20 2022 17:46:31.640460, Osc\_Trigger Off  
2706, C60, 6, Aug 20 2022 17:46:31.637968, OSCILLOGRAPHY TRIG'D  
2707, C60, 5, Aug 20 2022 17:46:31.637968, Osc\_Trigger On  
2708, C60, 4, Aug 20 2022 17:46:31.371228, Osc\_Trigger Off  
2709, C60, 3, Aug 20 2022 17:46:31.368736, OSCILLOGRAPHY TRIG'D  
2710, C60, 2, Aug 20 2022 17:46:31.368736, Osc\_Trigger On  
2711, C60, 1, Aug 19 2022 20:53:43.061889, EVENTS CLEARED

Site Event Recorder // CENTRAL RÍO HUASCO

#,Device,Event Number,Time Stamp,Cause

1, C60, 663, Aug 05 2023 18:14:12.706269, CB1\_RESFLT Off  
2, T60, 3595951, Aug 05 2023 18:14:12.705370, CB1\_RESFLT Off  
3, T60, 3595950, Aug 05 2023 18:14:11.854098, T1\_IMGTRMIK Off  
4, C60, 662, Aug 05 2023 18:14:09.666225, CB2\_RESFLT Off  
5, T60, 3595949, Aug 05 2023 18:14:09.665324, CB2\_RESFLT Off  
6, C60, 661, Aug 05 2023 18:14:04.871149, CB1\_RESFLT On  
7, T60, 3595948, Aug 05 2023 18:14:04.870274, CB1\_RESFLT On  
8, C60, 660, Aug 05 2023 18:14:02.666121, CB1\_RESFLT Off  
9, T60, 3595947, Aug 05 2023 18:14:02.665253, CB1\_RESFLT Off  
10, T60, 3595946, Aug 05 2023 18:13:58.207350, T1\_IMGTRMIK On  
11, C60, 659, Aug 05 2023 18:13:54.651004, CB2\_RESFLT On  
12, T60, 3595945, Aug 05 2023 18:13:54.650172, CB2\_RESFLT On  
13, C60, 658, Aug 05 2023 18:13:53.788495, CB1\_RESFLT On  
14, T60, 3595944, Aug 05 2023 18:13:53.787675, CB1\_RESFLT On  
15, C60, 657, Aug 05 2023 18:13:51.888457, CB2\_RESFLT Off  
16, T60, 3595943, Aug 05 2023 18:13:51.887641, CB2\_RESFLT Off  
17, T60, 3595942, Aug 05 2023 18:13:51.599527, T1\_IMGTRMIK Off  
18, T60, 3595941, Aug 05 2023 18:13:50.914327, T1\_IMGTRMIK On  
19, C60, 656, Aug 05 2023 18:13:48.361303, CB2\_RESFLT On  
20, T60, 3595940, Aug 05 2023 18:13:48.360455, CB2\_RESFLT On  
21, D60, 39493, Aug 05 2023 18:13:48.015568, PHASE TOC2 DPO C  
22, D60, 39492, Aug 05 2023 18:13:48.015568, PHASE TOC2 DPO A  
23, D60, 39491, Aug 05 2023 18:13:48.015568, PHASE TOC1 DPO C  
24, D60, 39490, Aug 05 2023 18:13:48.015568, PHASE TOC1 DPO A  
25, D60, 39489, Aug 05 2023 18:13:48.015568, GROUND TOC1 DPO  
26, T60, 3595939, Aug 05 2023 18:13:48.015559, PHASE TOC2 DPO C  
27, T60, 3595938, Aug 05 2023 18:13:48.015559, PHASE TOC2 DPO A  
28, T60, 3595937, Aug 05 2023 18:13:48.015559, PHASE TOC1 DPO C  
29, T60, 3595936, Aug 05 2023 18:13:48.015559, PHASE TOC1 DPO A  
30, T60, 3595935, Aug 05 2023 18:13:48.015559, NEUTRAL TOC1 DPO  
31, T60, 3595934, Aug 05 2023 18:13:48.015559, GROUND TOC1 DPO  
32, C60, 655, Aug 05 2023 18:13:48.008909, 891T\_27LINEA On  
33, C60, 654, Aug 05 2023 18:13:48.008909, SYNC 1 CLS OP  
34, C60, 653, Aug 05 2023 18:13:48.008909, SYNC 1 DEAD S OP  
35, D60, 39488, Aug 05 2023 18:13:48.005567, 52T\_TRIP2 Off  
36, D60, 39487, Aug 05 2023 18:13:48.005567, 52T\_TRIP1 Off  
37, D60, 39486, Aug 05 2023 18:13:48.005567, PHASE TOC2 DPO B  
38, D60, 39485, Aug 05 2023 18:13:48.005567, PHASE TOC1 DPO B  
39, D60, 39484, Aug 05 2023 18:13:48.005567, PHASE IOC1 DPO C  
40, T60, 3595933, Aug 05 2023 18:13:48.005558, RESERVA Off  
41, T60, 3595932, Aug 05 2023 18:13:48.005558, 52T\_TRIPBF1 Off  
42, T60, 3595931, Aug 05 2023 18:13:48.005558, PHASE TOC2 DPO B  
43, T60, 3595930, Aug 05 2023 18:13:48.005558, PHASE TOC1 DPO B  
44, T60, 3595929, Aug 05 2023 18:13:48.005558, PHASE IOC1 DPO C  
45, D60, 39483, Aug 05 2023 18:13:48.003069, PHASE IOC1 DPO A  
46, T60, 3595928, Aug 05 2023 18:13:48.003061, PHASE IOC1 DPO A

47, D60, 39482, Aug 05 2023 18:13:48.000569, PHASE IOC1 DPO B  
48, T60, 3595927, Aug 05 2023 18:13:48.000561, PHASE IOC1 DPO B  
49, C60, 652, Aug 05 2023 18:13:47.996394, Osc\_Trigger Off  
50, C60, 651, Aug 05 2023 18:13:47.993892, OSCILLOGRAPHY TRIG'D  
51, C60, 650, Aug 05 2023 18:13:47.993892, Osc\_Trigger On  
52, C60, 649, Aug 05 2023 18:13:47.993892, BREAKER 1 CLOSED  
53, T60, 3595926, Aug 05 2023 18:13:47.993058, OSCILLOGRAPHY TRIG'D  
54, D60, 39481, Aug 05 2023 18:13:47.990158, 52HT\_ABIERTO On  
<----- APERTURA DEL INTERRUPTOR 52HT  
55, T60, 3595925, Aug 05 2023 18:13:47.990005, 52T\_OP On  
56, C60, 648, Aug 05 2023 18:13:47.988893, QP\_ABFD60 Off  
57, T60, 3595924, Aug 05 2023 18:13:47.988506, QP\_ABFT60 Off  
58, D60, 39480, Aug 05 2023 18:13:47.984161, QP\_ABFD60 Off  
59, T60, 3595923, Aug 05 2023 18:13:47.978072, RESERVA Off  
60, T60, 3595922, Aug 05 2023 18:13:47.978072, RESERVA Off  
61, T60, 3595921, Aug 05 2023 18:13:47.978072, TX\_ABF\_CTRAL Off  
62, T60, 3595920, Aug 05 2023 18:13:47.978072, QP\_ABFD60 Off  
63, C60, 647, Aug 05 2023 18:13:47.976391, BREAKER 1 I A INTERM  
64, D60, 39479, Aug 05 2023 18:13:47.975572, ABF\_T60 Off  
65, T60, 3595919, Aug 05 2023 18:13:47.974005, 52T\_CL Off  
66, D60, 39478, Aug 05 2023 18:13:47.973150, 52HT\_CERRADO Off  
67, D60, 39477, Aug 05 2023 18:13:47.965579, BKR FAIL 1 TRIP OP  
68, C60, 646, Aug 05 2023 18:13:47.946386, QP\_ABFD60 On  
69, T60, 3595918, Aug 05 2023 18:13:47.945606, PHASE IOC1 OP B  
70, T60, 3595917, Aug 05 2023 18:13:47.945490, QP\_ABFT60 On  
71, T60, 3595916, Aug 05 2023 18:13:47.943109, BKR FAIL 1 TRIP OP  
72, D60, 39476, Aug 05 2023 18:13:47.943103, PHASE IOC1 OP B  
73, D60, 39475, Aug 05 2023 18:13:47.942145, QP\_ABFD60 On  
74, T60, 3595915, Aug 05 2023 18:13:47.940610, PHASE IOC1 OP A  
75, D60, 39474, Aug 05 2023 18:13:47.938111, ABF\_T60 On  
76, D60, 39473, Aug 05 2023 18:13:47.938111, PHASE IOC1 OP A  
77, T60, 3595914, Aug 05 2023 18:13:47.935617, TX\_ABF\_CTRAL On  
78, T60, 3595913, Aug 05 2023 18:13:47.935617, QP\_ABFD60 On  
79, T60, 3595912, Aug 05 2023 18:13:47.935617, RESERVA On  
80, T60, 3595911, Aug 05 2023 18:13:47.935617, 52T\_TRIPBF1 On  
81, T60, 3595910, Aug 05 2023 18:13:47.935617, PHASE IOC1 OP C  
82, D60, 39472, Aug 05 2023 18:13:47.935612, 52T\_TRIP2 On  
83, D60, 39471, Aug 05 2023 18:13:47.935612, 52T\_TRIP1 On  
84, D60, 39470, Aug 05 2023 18:13:47.935612, PHASE IOC1 OP C  
85, C60, 645, Aug 05 2023 18:13:47.786356, Osc\_Trigger Off  
86, C60, 644, Aug 05 2023 18:13:47.783854, OSCILLOGRAPHY TRIG'D  
87, C60, 643, Aug 05 2023 18:13:47.783854, Osc\_Trigger On  
88, T60, 3595909, Aug 05 2023 18:13:47.783291, OSCILLOGRAPHY TRIG'D  
89, T60, 3595908, Aug 05 2023 18:13:47.615741, PHASE TOC2 PKP C  
90, T60, 3595907, Aug 05 2023 18:13:47.615741, PHASE TOC2 PKP A  
91, T60, 3595906, Aug 05 2023 18:13:47.615741, PHASE TOC1 PKP C  
92, T60, 3595905, Aug 05 2023 18:13:47.615741, PHASE TOC1 PKP A  
93, D60, 39469, Aug 05 2023 18:13:47.615738, PHASE TOC2 PKP C  
94, D60, 39468, Aug 05 2023 18:13:47.615738, PHASE TOC2 PKP A  
95, D60, 39467, Aug 05 2023 18:13:47.615738, PHASE TOC1 PKP C

96, D60, 39466, Aug 05 2023 18:13:47.615738, PHASE TOC1 PKP A  
97, T60, 3595904, Aug 05 2023 18:13:47.613240, PHASE IOC1 PKP B  
98, D60, 39465, Aug 05 2023 18:13:47.613236, PHASE IOC1 PKP B  
99, T60, 3595903, Aug 05 2023 18:13:47.608239, PHASE IOC1 PKP A  
100, D60, 39464, Aug 05 2023 18:13:47.608236, PHASE IOC1 PKP A  
101, T60, 3595902, Aug 05 2023 18:13:47.605738, OSCILLOGRAPHY TRIG'D  
102, T60, 3595901, Aug 05 2023 18:13:47.605738, PHASE TOC2 PKP B  
103, T60, 3595900, Aug 05 2023 18:13:47.605738, PHASE TOC1 PKP B  
104, T60, 3595899, Aug 05 2023 18:13:47.605738, NEUTRAL TOC1 PKP  
105, T60, 3595898, Aug 05 2023 18:13:47.605738, GROUND TOC1 PKP  
106, T60, 3595897, Aug 05 2023 18:13:47.605738, PHASE IOC1 PKP C  
107, D60, 39463, Aug 05 2023 18:13:47.605734, PHASE TOC2 PKP B  
108, D60, 39462, Aug 05 2023 18:13:47.605734, PHASE TOC1 PKP B  
109, D60, 39461, Aug 05 2023 18:13:47.605734, GROUND TOC1 PKP  
110, D60, 39460, Aug 05 2023 18:13:47.605734, PHASE IOC1 PKP C  
111, D60, 39459, Aug 05 2023 18:13:47.598234, NTRL DIR OC1 FWD  
112, C60, 642, Aug 05 2023 18:13:47.596371, Osc\_Trigger Off  
113, T60, 3595896, Aug 05 2023 18:13:47.595739, PH DIR1 BLK B  
114, D60, 39458, Aug 05 2023 18:13:47.595735, PH DIR2 BLK B  
115, C60, 641, Aug 05 2023 18:13:47.593870, OSCILLOGRAPHY TRIG'D  
116, C60, 640, Aug 05 2023 18:13:47.593870, Osc\_Trigger On  
117, T60, 3595895, Aug 05 2023 18:13:47.593242, OSCILLOGRAPHY TRIG'D  
118, T60, 3595894, Aug 05 2023 18:13:47.593242, PH DIR1 BLK A  
119, D60, 39457, Aug 05 2023 18:13:47.593235, PH DIR2 BLK A  
120, D60, 39456, Aug 05 2023 18:13:47.593235, NTRL DIR OC1 REV  
121, C60, 639, Aug 05 2023 18:13:47.433965, Osc\_Trigger Off  
122, C60, 638, Aug 05 2023 18:13:47.431471, OSCILLOGRAPHY TRIG'D  
123, C60, 637, Aug 05 2023 18:13:47.431471, Osc\_Trigger On  
124, T60, 3595893, Aug 05 2023 18:13:47.430673, OSCILLOGRAPHY TRIG'D  
125, T60, 3595892, Aug 02 2023 19:31:10.521347, T1\_IMGTRMIK Off  
126, T60, 3595891, Aug 02 2023 19:31:06.966029, T1\_IMGTRMIK On  
127, T60, 3595890, Aug 02 2023 19:26:52.641215, T1\_IMGTRMIK Off  
128, T60, 3595889, Aug 02 2023 19:26:44.371136, T1\_IMGTRMIK On  
129, T60, 3595888, Jul 31 2023 06:56:37.468712, OSCILLOGRAPHY TRIG'D  
130, C60, 636, Jul 31 2023 06:56:37.431143, Osc\_Trigger Off  
131, C60, 635, Jul 31 2023 06:56:37.428644, OSCILLOGRAPHY TRIG'D  
132, C60, 634, Jul 31 2023 06:56:37.428644, Osc\_Trigger On  
133, D60, 39455, Jul 30 2023 16:53:27.296996, PH DIR2 BLK B  
134, T60, 3595887, Jul 30 2023 16:53:27.294511, PH DIR1 BLK B  
135, T60, 3595886, Jul 30 2023 16:53:27.147087, PH DIR1 BLK A  
136, D60, 39454, Jul 30 2023 16:53:27.144588, PH DIR2 BLK B  
137, T60, 3595885, Jul 30 2023 16:53:27.134590, PH DIR1 BLK B  
138, D60, 39453, Jul 30 2023 16:53:26.987179, PH DIR2 BLK B  
139, T60, 3595884, Jul 30 2023 16:53:26.979692, PH DIR1 BLK B  
140, T60, 3595883, Jul 30 2023 16:53:26.914730, PH DIR1 BLK B  
141, D60, 39452, Jul 30 2023 16:53:26.914722, PH DIR2 BLK B  
142, D60, 39451, Jul 30 2023 12:31:20.668053, PH DIR2 BLK B  
143, D60, 39450, Jul 30 2023 12:31:15.625374, PH DIR2 BLK B  
144, T60, 3595882, Jul 30 2023 12:31:14.141102, PH DIR1 BLK B  
145, D60, 39449, Jul 30 2023 12:31:12.398876, PH DIR2 BLK B

146, T60, 3595881, Jul 30 2023 12:31:12.391362, PH DIR1 BLK B  
147, D60, 39448, Jul 30 2023 06:12:38.805408, PH DIR2 BLK C  
148, D60, 39447, Jul 30 2023 06:12:38.805408, PH DIR2 BLK B  
149, T60, 3595880, Jul 30 2023 06:12:38.804703, OSCILLOGRAPHY TRIG'D  
150, T60, 3595879, Jul 30 2023 06:12:38.804703, PH DIR1 BLK C  
151, T60, 3595878, Jul 30 2023 06:12:38.804703, PH DIR1 BLK B  
152, D60, 39446, Jul 30 2023 06:12:38.802913, PH DIR2 BLK A  
153, T60, 3595877, Jul 30 2023 06:12:38.802208, PH DIR1 BLK A  
154, C60, 633, Jul 30 2023 06:12:38.800367, Osc\_Trigger Off  
155, C60, 632, Jul 30 2023 06:12:38.797871, OSCILLOGRAPHY TRIG'D  
156, C60, 631, Jul 30 2023 06:12:38.797871, Osc\_Trigger On  
157, D60, 39445, Jul 26 2023 17:40:20.745443, RESET OP(PUSHBUTTON)  
158, C60, 630, Jul 24 2023 22:12:13.189204, CB1\_RESFLT Off  
159, T60, 3595876, Jul 24 2023 22:12:13.188361, CB1\_RESFLT Off  
160, T60, 3595875, Jul 24 2023 22:12:12.391102, T1\_IMGTRMIK Off  
161, C60, 629, Jul 24 2023 22:12:10.055750, CB2\_RESFLT Off  
162, T60, 3595874, Jul 24 2023 22:12:10.054906, CB2\_RESFLT Off  
163, T60, 3595873, Jul 24 2023 22:12:02.704129, PH DIR1 BLK C  
164, D60, 39444, Jul 24 2023 22:12:02.704121, PH DIR2 BLK C  
165, T60, 3595872, Jul 24 2023 22:12:02.681689, PH DIR1 BLK A  
166, D60, 39443, Jul 24 2023 22:12:02.681684, PH DIR2 BLK A  
167, C60, 628, Jul 24 2023 22:12:02.665139, Osc\_Trigger Off  
168, C60, 627, Jul 24 2023 22:12:02.662643, OSCILLOGRAPHY TRIG'D  
169, C60, 626, Jul 24 2023 22:12:02.662643, Osc\_Trigger On  
170, T60, 3595871, Jul 24 2023 22:12:02.661749, OSCILLOGRAPHY TRIG'D  
171, T60, 3595870, Jul 24 2023 22:12:02.644305, PH DIR1 BLK B  
172, D60, 39442, Jul 24 2023 22:12:02.644299, PH DIR2 BLK B  
173, C60, 625, Jul 24 2023 22:12:01.512907, CB1\_RESFLT On  
174, T60, 3595869, Jul 24 2023 22:12:01.512081, CB1\_RESFLT On  
175, T60, 3595868, Jul 24 2023 22:12:01.074440, T1\_IMGTRMIK On  
176, C60, 624, Jul 24 2023 22:12:00.063993, CB2\_RESFLT On  
177, T60, 3595867, Jul 24 2023 22:12:00.063149, CB2\_RESFLT On  
178, D60, 39441, Jul 24 2023 22:10:58.822980, PHASE TOC2 DPO A  
179, D60, 39440, Jul 24 2023 22:10:58.822980, PHASE TOC1 DPO A  
180, T60, 3595866, Jul 24 2023 22:10:58.822483, PHASE TOC2 DPO A  
181, T60, 3595865, Jul 24 2023 22:10:58.822483, PHASE TOC1 DPO A  
182, D60, 39439, Jul 24 2023 22:10:58.753027, PHASE TOC2 DPO C  
183, D60, 39438, Jul 24 2023 22:10:58.753027, PHASE TOC1 DPO C  
184, T60, 3595864, Jul 24 2023 22:10:58.752522, PHASE TOC2 DPO C  
185, T60, 3595863, Jul 24 2023 22:10:58.752522, PHASE TOC1 DPO C  
186, D60, 39437, Jul 24 2023 22:10:58.715547, PH DIR2 BLK B  
187, T60, 3595862, Jul 24 2023 22:10:58.715036, PH DIR1 BLK B  
188, D60, 39436, Jul 24 2023 22:10:58.713047, PHASE TOC2 PKP C  
189, D60, 39435, Jul 24 2023 22:10:58.713047, PHASE TOC1 PKP C  
190, D60, 39434, Jul 24 2023 22:10:58.713047, GROUND TOC1 DPO  
191, D60, 39433, Jul 24 2023 22:10:58.713047, PH DIR2 BLK C  
192, D60, 39432, Jul 24 2023 22:10:58.713047, PH DIR2 BLK A  
193, T60, 3595861, Jul 24 2023 22:10:58.712534, PHASE TOC2 PKP C  
194, T60, 3595860, Jul 24 2023 22:10:58.712534, PHASE TOC1 PKP C  
195, T60, 3595859, Jul 24 2023 22:10:58.712534, NEUTRAL TOC1 DPO



196, T60, 3595858, Jul 24 2023 22:10:58.712534, GROUND TOC1 DPO  
197, T60, 3595857, Jul 24 2023 22:10:58.712534, PH DIR1 BLK C  
198, T60, 3595856, Jul 24 2023 22:10:58.712534, PH DIR1 BLK A  
199, D60, 39431, Jul 24 2023 22:10:58.703052, PHASE TOC2 PKP A  
200, D60, 39430, Jul 24 2023 22:10:58.703052, PHASE TOC1 PKP A  
201, D60, 39429, Jul 24 2023 22:10:58.703052, GROUND TOC1 PKP  
202, T60, 3595855, Jul 24 2023 22:10:58.702527, OSCILLOGRAPHY TRIG'D  
203, T60, 3595854, Jul 24 2023 22:10:58.702527, PHASE TOC2 PKP A  
204, T60, 3595853, Jul 24 2023 22:10:58.702527, PHASE TOC1 PKP A  
205, T60, 3595852, Jul 24 2023 22:10:58.702527, NEUTRAL TOC1 PKP  
206, T60, 3595851, Jul 24 2023 22:10:58.702527, GROUND TOC1 PKP  
207, T60, 3595850, Jul 24 2023 22:10:58.695028, OSCILLOGRAPHY TRIG'D  
208, T60, 3595849, Jul 24 2023 22:10:58.695028, XFMR PCNT DIFF PKP C  
209, C60, 623, Jul 24 2023 22:10:58.690123, 891T\_27LINEA Off  
210, C60, 622, Jul 24 2023 22:10:58.690123, SYNC 1 CLS DPO  
211, C60, 621, Jul 24 2023 22:10:58.690123, SYNC 1 DEAD S DPO  
212, T60, 3595848, Jul 24 2023 22:10:58.690027, OSCILLOGRAPHY TRIG'D  
213, T60, 3595847, Jul 24 2023 22:10:58.690027, XFMR PCNT DIFF PKP B  
214, T60, 3595846, Jul 24 2023 22:10:58.690027, XFMR PCNT DIFF PKP A  
215, C60, 620, Jul 24 2023 22:10:58.687623, Osc\_Trigger Off  
216, C60, 619, Jul 24 2023 22:10:58.685124, OSCILLOGRAPHY TRIG'D  
217, C60, 618, Jul 24 2023 22:10:58.685124, Osc\_Trigger On  
218, T60, 3595845, Jul 24 2023 22:10:58.685028, OSCILLOGRAPHY TRIG'D  
219, C60, 617, Jul 23 2023 19:38:04.496798, CB1\_RESFLT Off  
220, T60, 3595844, Jul 23 2023 19:38:04.495239, CB1\_RESFLT Off  
221, T60, 3595843, Jul 23 2023 19:38:03.623310, T1\_IMGTRMIK Off  
222, C60, 616, Jul 23 2023 19:38:01.039255, CB2\_RESFLT Off  
223, T60, 3595842, Jul 23 2023 19:38:01.037708, CB2\_RESFLT Off  
224, C60, 615, Jul 23 2023 19:37:56.654178, CB1\_RESFLT On  
225, T60, 3595841, Jul 23 2023 19:37:56.652657, CB1\_RESFLT On  
226, C60, 614, Jul 23 2023 19:37:20.883635, CB1\_RESFLT Off  
227, T60, 3595840, Jul 23 2023 19:37:20.882295, CB1\_RESFLT Off  
228, T60, 3595839, Jul 23 2023 19:37:16.418289, T1\_IMGTRMIK On  
229, C60, 613, Jul 23 2023 19:37:14.761044, CB1\_RESFLT On  
230, T60, 3595838, Jul 23 2023 19:37:14.759734, CB1\_RESFLT On  
231, C60, 612, Jul 23 2023 19:37:13.958530, CB2\_RESFLT On  
232, T60, 3595837, Jul 23 2023 19:37:13.957224, CB2\_RESFLT On  
233, T60, 3595832, Jul 23 2023 15:19:37.340235, CB1\_RESFLT Off  
234, C60, 608, Jul 23 2023 15:19:37.313807, CB1\_RESFLT Off  
235, T60, 3595831, Jul 23 2023 15:19:36.573977, OSCILLOGRAPHY TRIG'D  
236, C60, 607, Jul 23 2023 15:19:36.568601, 891T\_27LINEA On  
237, C60, 606, Jul 23 2023 15:19:36.568601, SYNC 1 CLS OP  
238, C60, 605, Jul 23 2023 15:19:36.568601, SYNC 1 DEAD S OP  
239, C60, 604, Jul 23 2023 15:19:36.552040, Osc\_Trigger Off  
240, C60, 603, Jul 23 2023 15:19:36.549280, OSCILLOGRAPHY TRIG'D  
241, C60, 602, Jul 23 2023 15:19:36.549280, Osc\_Trigger On  
242, T60, 3595830, Jul 23 2023 15:19:33.024038, CB2\_RESFLT On  
243, C60, 601, Jul 23 2023 15:19:32.998160, CB2\_RESFLT On  
244, T60, 3595829, Jul 23 2023 15:19:32.984275, CB1\_RESFLT On  
245, C60, 600, Jul 23 2023 15:19:32.958437, CB1\_RESFLT On

246, T60, 3595828, Jul 23 2023 15:19:32.918897, T1\_IMGTRMIK On  
247, T60, 3595827, Jul 23 2023 15:19:31.421456, PH DIR1 BLK B  
248, T60, 3595826, Jul 23 2023 15:19:31.408957, PH DIR1 BLK A  
249, D60, 39428, Jul 23 2023 15:19:31.398371, PH DIR2 BLK B  
250, T60, 3595825, Jul 23 2023 15:19:31.391454, PHASE TOC2 DPO A  
251, T60, 3595824, Jul 23 2023 15:19:31.391454, PHASE TOC1 DPO A  
252, T60, 3595823, Jul 23 2023 15:19:31.386452, PH DIR1 BLK C  
253, D60, 39427, Jul 23 2023 15:19:31.385874, PH DIR2 BLK A  
254, D60, 39426, Jul 23 2023 15:19:31.368372, PHASE TOC2 DPO A  
255, D60, 39425, Jul 23 2023 15:19:31.368372, PHASE TOC1 DPO A  
256, D60, 39424, Jul 23 2023 15:19:31.363371, PH DIR2 BLK C  
257, T60, 3595822, Jul 23 2023 15:19:31.361453, PHASE TOC2 DPO B  
258, T60, 3595821, Jul 23 2023 15:19:31.361453, PHASE TOC1 DPO B  
259, D60, 39423, Jul 23 2023 15:19:31.338368, PHASE TOC2 DPO B  
260, D60, 39422, Jul 23 2023 15:19:31.338368, PHASE TOC1 DPO B  
261, T60, 3595820, Jul 23 2023 15:19:31.261429, PHASE TOC2 PKP A  
262, T60, 3595819, Jul 23 2023 15:19:31.261429, PHASE TOC1 PKP A  
263, T60, 3595818, Jul 23 2023 15:19:31.246426, OSCILLOGRAPHY TRIG'D  
264, D60, 39421, Jul 23 2023 15:19:31.238357, PHASE TOC2 PKP A  
265, D60, 39420, Jul 23 2023 15:19:31.238357, PHASE TOC1 PKP A  
266, C60, 599, Jul 23 2023 15:19:31.220501, Osc\_Trigger Off  
267, C60, 598, Jul 23 2023 15:19:31.218000, OSCILLOGRAPHY TRIG'D  
268, C60, 597, Jul 23 2023 15:19:31.218000, Osc\_Trigger On  
269, T60, 3595817, Jul 23 2023 15:19:31.021381, PHASE TOC2 DPO A  
270, T60, 3595816, Jul 23 2023 15:19:31.021381, PHASE TOC1 DPO A  
271, D60, 39419, Jul 23 2023 15:19:30.998308, PHASE TOC2 DPO A  
272, D60, 39418, Jul 23 2023 15:19:30.998308, PHASE TOC1 DPO A  
273, T60, 3595815, Jul 23 2023 15:19:30.871326, PHASE TOC2 PKP A  
274, T60, 3595814, Jul 23 2023 15:19:30.871326, PHASE TOC1 PKP A  
275, T60, 3595813, Jul 23 2023 15:19:30.861322, OSCILLOGRAPHY TRIG'D  
276, T60, 3595812, Jul 23 2023 15:19:30.861322, PHASE TOC2 PKP B  
277, T60, 3595811, Jul 23 2023 15:19:30.861322, PHASE TOC1 PKP B  
278, T60, 3595810, Jul 23 2023 15:19:30.851329, PH DIR1 BLK C  
279, D60, 39417, Jul 23 2023 15:19:30.848234, PHASE TOC2 PKP A  
280, D60, 39416, Jul 23 2023 15:19:30.848234, PHASE TOC1 PKP A  
281, T60, 3595809, Jul 23 2023 15:19:30.838835, OSCILLOGRAPHY TRIG'D  
282, D60, 39415, Jul 23 2023 15:19:30.838229, PHASE TOC2 PKP B  
283, D60, 39414, Jul 23 2023 15:19:30.838229, PHASE TOC1 PKP B  
284, D60, 39413, Jul 23 2023 15:19:30.828233, PH DIR2 BLK C  
285, C60, 596, Jul 23 2023 15:19:30.812670, Osc\_Trigger Off  
286, C60, 595, Jul 23 2023 15:19:30.810170, OSCILLOGRAPHY TRIG'D  
287, C60, 594, Jul 23 2023 15:19:30.810170, Osc\_Trigger On  
288, C60, 611, Jul 23 2023 14:19:54.881269, CB1\_RESFLT Off  
289, T60, 3595836, Jul 23 2023 14:19:54.879202, CB1\_RESFLT Off  
290, T60, 3595835, Jul 23 2023 14:19:54.010440, T1\_IMGTRMIK Off  
291, C60, 610, Jul 23 2023 14:19:51.086223, CB2\_RESFLT Off  
292, T60, 3595834, Jul 23 2023 14:19:51.084155, CB2\_RESFLT Off  
293, C60, 609, Jul 23 2023 14:19:47.043662, CB1\_RESFLT On  
294, T60, 3595833, Jul 23 2023 14:19:47.041616, CB1\_RESFLT On  
295, T60, 3595808, Jul 23 2023 14:02:24.332615, PH DIR1 BLK A

296, T60, 3595807, Jul 23 2023 14:02:24.252569, PH DIR1 BLK A  
297, T60, 3595806, Jul 23 2023 14:02:23.424593, PH DIR1 BLK A  
298, T60, 3595805, Jul 23 2023 14:02:23.181965, PH DIR1 BLK A  
299, T60, 3595804, Jul 23 2023 14:02:23.109438, PH DIR1 BLK A  
300, T60, 3595803, Jul 23 2023 14:02:23.041909, PH DIR1 BLK A  
301, T60, 3595802, Jul 23 2023 14:02:22.821818, PH DIR1 BLK A  
302, T60, 3595801, Jul 23 2023 14:02:22.621767, PH DIR1 BLK A  
303, T60, 3595800, Jul 23 2023 14:02:22.556736, PH DIR1 BLK A  
304, T60, 3595799, Jul 23 2023 14:02:22.251668, PH DIR1 BLK A  
305, T60, 3595798, Jul 23 2023 14:02:22.194157, PH DIR1 BLK A  
306, T60, 3595797, Jul 23 2023 14:02:22.044125, PH DIR1 BLK A  
307, T60, 3595796, Jul 23 2023 14:02:21.964099, PH DIR1 BLK A  
308, T60, 3595795, Jul 23 2023 14:02:21.916588, PH DIR1 BLK A  
309, D60, 39412, Jul 23 2023 14:02:21.791577, PH DIR2 BLK A  
310, T60, 3595794, Jul 23 2023 14:02:21.754079, PH DIR1 BLK A  
311, D60, 39411, Jul 23 2023 14:02:21.646565, PH DIR2 BLK A  
312, T60, 3595793, Jul 23 2023 14:02:21.639068, PH DIR1 BLK A  
313, T60, 3595792, Jul 23 2023 14:02:21.564059, PH DIR1 BLK A  
314, T60, 3595791, Jul 23 2023 14:02:21.481548, PH DIR1 BLK A  
315, T60, 3595790, Jul 23 2023 14:02:21.411537, PH DIR1 BLK A  
316, T60, 3595789, Jul 23 2023 14:02:21.264012, PH DIR1 BLK A  
317, D60, 39410, Jul 23 2023 14:02:21.229002, PH DIR2 BLK A  
318, T60, 3595788, Jul 23 2023 14:02:21.203996, PH DIR1 BLK A  
319, D60, 39409, Jul 23 2023 14:02:21.003955, PH DIR2 BLK A  
320, T60, 3595787, Jul 23 2023 14:02:20.993940, PH DIR1 BLK A  
321, D60, 39408, Jul 23 2023 14:02:20.941420, PH DIR2 BLK A  
322, T60, 3595786, Jul 23 2023 14:02:20.926423, PH DIR1 BLK A  
323, D60, 39407, Jul 23 2023 14:02:20.868907, PH DIR2 BLK A  
324, T60, 3595785, Jul 23 2023 14:02:20.843908, PH DIR1 BLK A  
325, D60, 39406, Jul 23 2023 14:02:20.776386, PH DIR2 BLK A  
326, T60, 3595784, Jul 23 2023 14:02:20.731382, PH DIR1 BLK A  
327, D60, 39405, Jul 23 2023 14:02:20.658855, PH DIR2 BLK A  
328, T60, 3595783, Jul 23 2023 14:02:20.623858, PH DIR1 BLK A  
329, T60, 3595782, Jul 23 2023 14:02:20.431303, PH DIR1 BLK A  
330, T60, 3595781, Jul 23 2023 14:02:20.361286, PH DIR1 BLK A  
331, T60, 3595780, Jul 23 2023 14:02:20.281262, PH DIR1 BLK A  
332, T60, 3595779, Jul 23 2023 14:02:20.211244, PH DIR1 BLK A  
333, D60, 39404, Jul 23 2023 14:02:20.148729, PH DIR2 BLK A  
334, T60, 3595778, Jul 23 2023 14:02:20.133722, PH DIR1 BLK A  
335, D60, 39403, Jul 23 2023 14:02:19.861122, PH DIR2 BLK A  
336, T60, 3595777, Jul 23 2023 14:02:19.768605, PH DIR1 BLK A  
337, T60, 3595776, Jul 23 2023 14:02:19.698583, PH DIR1 BLK A  
338, D60, 39402, Jul 23 2023 14:02:19.671069, PH DIR2 BLK A  
339, T60, 3595775, Jul 23 2023 14:02:19.636067, PH DIR1 BLK A  
340, D60, 39401, Jul 23 2023 14:02:19.588548, PH DIR2 BLK A  
341, T60, 3595774, Jul 23 2023 14:02:19.576057, PH DIR1 BLK A  
342, T60, 3595773, Jul 23 2023 14:02:19.533540, PH DIR1 BLK B  
343, T60, 3595772, Jul 23 2023 14:02:19.436007, PH DIR1 BLK A  
344, T60, 3595771, Jul 23 2023 14:02:19.423501, PH DIR1 BLK A  
345, T60, 3595770, Jul 23 2023 14:02:19.365986, PH DIR1 BLK A

346, D60, 39400, Jul 23 2023 14:02:19.250942, PH DIR2 BLK A  
347, T60, 3595769, Jul 23 2023 14:02:19.220932, PH DIR1 BLK A  
348, T60, 3595768, Jul 23 2023 14:02:19.163409, PH DIR1 BLK A  
349, D60, 39399, Jul 23 2023 14:02:19.105891, PH DIR2 BLK A  
350, T60, 3595767, Jul 23 2023 14:02:19.080888, PH DIR1 BLK A  
351, D60, 39398, Jul 23 2023 14:02:19.038379, PH DIR2 BLK A  
352, T60, 3595766, Jul 23 2023 14:02:19.010870, PH DIR1 BLK A  
353, T60, 3595765, Jul 23 2023 14:02:18.943338, PH DIR1 BLK A  
354, T60, 3595764, Jul 23 2023 14:02:18.933335, PH DIR1 BLK A  
355, T60, 3595763, Jul 23 2023 14:02:18.810788, PH DIR1 BLK A  
356, T60, 3595762, Jul 23 2023 14:02:18.733264, PH DIR1 BLK A  
357, T60, 3595761, Jul 23 2023 14:02:18.653236, PH DIR1 BLK A  
358, T60, 3595760, Jul 23 2023 14:02:18.605721, PH DIR1 BLK A  
359, D60, 39397, Jul 23 2023 14:02:18.535691, PH DIR2 BLK A  
360, T60, 3595759, Jul 23 2023 14:02:18.513186, PH DIR1 BLK A  
361, D60, 39396, Jul 23 2023 14:02:18.465669, PH DIR2 BLK A  
362, T60, 3595758, Jul 23 2023 14:02:18.433234, PH DIR1 BLK A  
363, T60, 3595757, Jul 23 2023 14:02:18.153057, PH DIR1 BLK A  
364, T60, 3595756, Jul 23 2023 14:02:18.123045, PH DIR1 BLK A  
365, T60, 3595755, Jul 23 2023 14:02:18.110538, PH DIR1 BLK A  
366, T60, 3595754, Jul 23 2023 14:02:18.025506, PH DIR1 BLK A  
367, T60, 3595753, Jul 23 2023 14:02:17.912954, PH DIR1 BLK A  
368, T60, 3595752, Jul 23 2023 14:02:17.792906, PH DIR1 BLK A  
369, T60, 3595751, Jul 23 2023 14:02:17.732881, PH DIR1 BLK A  
370, T60, 3595750, Jul 23 2023 14:02:17.690367, PH DIR1 BLK A  
371, T60, 3595749, Jul 23 2023 14:02:17.662853, PH DIR1 BLK A  
372, T60, 3595748, Jul 23 2023 14:02:17.442770, PH DIR1 BLK A  
373, T60, 3595747, Jul 23 2023 14:02:17.405249, PH DIR1 BLK A  
374, D60, 39395, Jul 23 2023 14:02:17.340217, PH DIR2 BLK A  
375, T60, 3595746, Jul 23 2023 14:02:17.332717, PH DIR1 BLK A  
376, T60, 3595745, Jul 23 2023 14:02:17.305203, PH DIR1 BLK A  
377, T60, 3595744, Jul 23 2023 14:02:17.240175, PH DIR1 BLK A  
378, T60, 3595743, Jul 23 2023 14:02:17.180148, PH DIR1 BLK A  
379, T60, 3595742, Jul 23 2023 14:02:17.102617, PH DIR1 BLK A  
380, T60, 3595741, Jul 23 2023 14:02:16.892516, PH DIR1 BLK A  
381, T60, 3595740, Jul 23 2023 14:02:16.814983, PH DIR1 BLK A  
382, T60, 3595739, Jul 23 2023 14:02:16.752447, PH DIR1 BLK A  
383, T60, 3595738, Jul 23 2023 14:02:16.619886, PH DIR1 BLK A  
384, T60, 3595737, Jul 23 2023 14:02:16.549864, PH DIR1 BLK A  
385, D60, 39394, Jul 16 2023 22:31:37.167821, PH DIR2 BLK C  
386, D60, 39393, Jul 16 2023 22:31:37.060400, PH DIR2 BLK A  
387, T60, 3595736, Jul 16 2023 22:31:36.764321, PH DIR1 BLK C  
388, T60, 3595735, Jul 16 2023 22:31:36.689378, PH DIR1 BLK A  
389, D60, 39392, Jul 16 2023 22:31:36.186106, PH DIR2 BLK B  
390, T60, 3595734, Jul 16 2023 22:31:36.094865, PH DIR1 BLK B  
391, D60, 39387, Jul 16 2023 19:54:35.144817, PH DIR2 BLK C  
392, D60, 39386, Jul 16 2023 19:54:34.967429, PH DIR2 BLK A  
393, T60, 3595726, Jul 16 2023 19:54:34.889512, PH DIR1 BLK C  
394, D60, 39385, Jul 16 2023 19:54:34.792548, PH DIR2 BLK B  
395, D60, 39384, Jul 16 2023 19:54:34.640151, PH DIR2 BLK A

396, D60, 39383, Jul 16 2023 19:54:34.575198, PH DIR2 BLK A  
397, T60, 3595725, Jul 16 2023 19:54:34.562170, PH DIR1 BLK A  
398, T60, 3595724, Jul 16 2023 19:54:34.504711, PH DIR1 BLK B  
399, T60, 3595723, Jul 16 2023 19:54:34.419768, PH DIR1 BLK A  
400, T60, 3595722, Jul 16 2023 19:54:34.359824, PH DIR1 BLK A  
401, T60, 3595721, Jul 16 2023 19:54:34.297353, PH DIR1 BLK A  
402, T60, 3595733, Jul 16 2023 18:54:49.436404, PH DIR1 BLK A  
403, T60, 3595732, Jul 16 2023 18:54:49.376404, PH DIR1 BLK A  
404, T60, 3595731, Jul 16 2023 18:54:49.366404, PH DIR1 BLK A  
405, T60, 3595730, Jul 16 2023 18:54:49.241386, PH DIR1 BLK B  
406, T60, 3595729, Jul 16 2023 18:54:49.068877, PH DIR1 BLK A  
407, T60, 3595728, Jul 16 2023 18:54:48.991366, PH DIR1 BLK A  
408, D60, 39391, Jul 16 2023 18:54:48.783853, PH DIR2 BLK A  
409, D60, 39390, Jul 16 2023 18:54:48.558846, PH DIR2 BLK A  
410, T60, 3595727, Jul 16 2023 18:54:48.531345, PH DIR1 BLK C  
411, D60, 39389, Jul 16 2023 18:54:48.498840, PH DIR2 BLK A  
412, D60, 39388, Jul 16 2023 18:54:47.826345, PH DIR2 BLK C  
413, T60, 3595720, Jul 16 2023 16:41:13.202194, PH DIR1 BLK A  
414, T60, 3595719, Jul 16 2023 16:41:13.064942, PH DIR1 BLK B  
415, T60, 3595718, Jul 16 2023 16:41:12.880272, PH DIR1 BLK A  
416, D60, 39382, Jul 16 2023 16:41:12.860301, PH DIR2 BLK A  
417, T60, 3595717, Jul 16 2023 16:41:12.830363, PH DIR1 BLK A  
418, D60, 39381, Jul 16 2023 16:41:12.785443, PH DIR2 BLK B  
419, D60, 39380, Jul 16 2023 16:41:12.780450, PH DIR2 BLK A  
420, D60, 39379, Jul 16 2023 16:41:12.570843, PH DIR2 BLK A  
421, D60, 39378, Jul 16 2023 16:41:12.473527, PH DIR2 BLK A  
422, D60, 39377, Jul 16 2023 16:41:11.889600, PH DIR2 BLK A  
423, D60, 39376, Jul 16 2023 16:41:11.809748, PH DIR2 BLK A  
424, T60, 3595716, Jul 16 2023 16:41:11.792291, PH DIR1 BLK C  
425, D60, 39375, Jul 16 2023 16:40:58.897448, PH DIR2 BLK C  
426, T60, 3595715, Jul 16 2023 16:40:58.557829, PH DIR1 BLK C  
427, D60, 39374, Jul 16 2023 16:40:58.343035, PH DIR2 BLK B  
428, D60, 39373, Jul 16 2023 16:40:58.263121, PH DIR2 BLK A  
429, T60, 3595714, Jul 16 2023 16:40:58.095799, PH DIR1 BLK A  
430, T60, 3595713, Jul 16 2023 16:40:58.043346, PH DIR1 BLK B  
431, T60, 3595712, Jul 16 2023 16:40:58.025861, PH DIR1 BLK A  
432, T60, 3595711, Jul 16 2023 16:40:57.968403, PH DIR1 BLK A  
433, T60, 3595710, Jul 16 2023 16:40:57.925941, PH DIR1 BLK A  
434, C60, 591, Jul 15 2023 14:27:32.028532, CB1\_RESFLT On  
435, T60, 3595706, Jul 15 2023 14:27:31.998914, CB1\_RESFLT On  
436, C60, 590, Jul 15 2023 14:27:31.981084, CB2\_RESFLT On  
437, T60, 3595705, Jul 15 2023 14:27:31.951465, CB2\_RESFLT On  
438, T60, 3595704, Jul 15 2023 14:27:31.869357, T1\_IMGTRMIK On  
439, C60, 589, Jul 15 2023 14:26:30.022930, CB2\_RESFLT Off  
440, C60, 593, Jul 15 2023 13:27:43.965283, CB1\_RESFLT Off  
441, T60, 3595709, Jul 15 2023 13:27:43.964445, CB1\_RESFLT Off  
442, T60, 3595708, Jul 15 2023 13:27:43.082838, T1\_IMGTRMIK Off  
443, C60, 592, Jul 15 2023 13:27:41.005958, CB2\_RESFLT Off  
444, T60, 3595707, Jul 15 2023 13:27:41.005112, CB2\_RESFLT Off  
445, T60, 3595703, Jul 15 2023 13:26:30.045796, CB2\_RESFLT Off



446, T60, 3595702, Jul 15 2023 13:26:29.631237, PHASE TOC2 DPO A  
447, T60, 3595701, Jul 15 2023 13:26:29.631237, PHASE TOC1 DPO A  
448, D60, 39372, Jul 15 2023 13:26:29.631232, PHASE TOC2 DPO A  
449, D60, 39371, Jul 15 2023 13:26:29.631232, PHASE TOC1 DPO A  
450, T60, 3595700, Jul 15 2023 13:26:29.581302, PHASE TOC2 DPO C  
451, T60, 3595699, Jul 15 2023 13:26:29.581302, PHASE TOC1 DPO C  
452, D60, 39370, Jul 15 2023 13:26:29.581299, PHASE TOC2 DPO C  
453, D60, 39369, Jul 15 2023 13:26:29.581299, PHASE TOC1 DPO C  
454, C60, 588, Jul 15 2023 13:26:29.502323, 52T\_CLOSE\_L Off  
455, T60, 3595698, Jul 15 2023 13:26:29.501470, PHASE TOC2 PKP C  
456, T60, 3595697, Jul 15 2023 13:26:29.501470, PHASE TOC1 PKP C  
457, D60, 39368, Jul 15 2023 13:26:29.501468, PHASE TOC2 PKP C  
458, D60, 39367, Jul 15 2023 13:26:29.501468, PHASE TOC1 PKP C  
459, D60, 39366, Jul 15 2023 13:26:29.491493, PHASE TOC2 PKP A  
460, D60, 39365, Jul 15 2023 13:26:29.491493, PHASE TOC1 PKP A  
461, T60, 3595696, Jul 15 2023 13:26:29.491494, OSCILLOGRAPHY TRIG'D  
462, T60, 3595695, Jul 15 2023 13:26:29.491494, PHASE TOC2 PKP A  
463, T60, 3595694, Jul 15 2023 13:26:29.491494, PHASE TOC1 PKP A  
464, D60, 39364, Jul 15 2023 13:26:29.484015, PH DIR2 BLK B  
465, T60, 3595693, Jul 15 2023 13:26:29.484004, OSCILLOGRAPHY TRIG'D  
466, T60, 3595692, Jul 15 2023 13:26:29.484004, XFMR PCNT DIFF PKP C  
467, T60, 3595691, Jul 15 2023 13:26:29.484004, PH DIR1 BLK B  
468, C60, 587, Jul 15 2023 13:26:29.479851, Osc\_Trigger Off  
469, D60, 39363, Jul 15 2023 13:26:29.479014, PH DIR2 BLK C  
470, D60, 39362, Jul 15 2023 13:26:29.479014, PH DIR2 BLK A  
471, T60, 3595690, Jul 15 2023 13:26:29.479013, OSCILLOGRAPHY TRIG'D  
472, T60, 3595689, Jul 15 2023 13:26:29.479013, XFMR PCNT DIFF PKP B  
473, T60, 3595688, Jul 15 2023 13:26:29.479013, XFMR PCNT DIFF PKP A  
474, T60, 3595687, Jul 15 2023 13:26:29.479013, PH DIR1 BLK C  
475, T60, 3595686, Jul 15 2023 13:26:29.479013, PH DIR1 BLK A  
476, C60, 586, Jul 15 2023 13:26:29.477356, CB2\_RESFLT On  
477, C60, 585, Jul 15 2023 13:26:29.477356, OSCILLOGRAPHY TRIG'D  
478, C60, 584, Jul 15 2023 13:26:29.477356, Osc\_Trigger On  
479, T60, 3595685, Jul 15 2023 13:26:29.476513, CB2\_RESFLT On  
480, C60, 583, Jul 15 2023 13:26:29.472361, BREAKER 1 OPEN  
481, T60, 3595684, Jul 15 2023 13:26:29.471518, RESERVA On  
482, T60, 3595683, Jul 15 2023 13:26:29.471518, RESERVA On  
483, T60, 3595682, Jul 15 2023 13:26:29.468111, 52T\_CL On  
484, D60, 39361, Jul 15 2023 13:26:29.467992, 52HT\_CERRADO On  
485, C60, 582, Jul 15 2023 13:26:29.452385, BREAKER 1 IA INTERM  
486, T60, 3595681, Jul 15 2023 13:26:29.449607, 52T\_OP Off  
487, D60, 39360, Jul 15 2023 13:26:29.448985, 52HT\_ABIERTO Off  
488, C60, 581, Jul 15 2023 13:26:29.399948, 52T\_CLOSE\_L On  
489, C60, 580, Jul 15 2023 13:26:29.399948, BREAKER 1 MNL CLS  
490, C60, 579, Jul 15 2023 13:26:29.399948, BREAKER 1 ON CMD  
491, C60, 578, Jul 15 2023 13:06:41.707213, 891T\_27LINEA Off  
492, C60, 577, Jul 15 2023 13:06:41.707213, SYNC 1 CLS DPO  
493, C60, 576, Jul 15 2023 13:06:41.707213, SYNC 1 DEAD S DPO  
494, C60, 575, Jul 15 2023 11:21:12.827297, CB1\_RESFLT Off  
495, T60, 3595680, Jul 15 2023 11:21:12.826133, CB1\_RESFLT Off

496, T60, 3595679, Jul 15 2023 11:21:11.986184, T1\_IMGTRMIK Off  
497, C60, 574, Jul 15 2023 11:21:09.747253, CB2\_RESFLT Off  
498, T60, 3595678, Jul 15 2023 11:21:09.746104, CB2\_RESFLT Off  
499, C60, 573, Jul 15 2023 11:21:04.992178, CB1\_RESFLT On  
500, T60, 3595677, Jul 15 2023 11:21:04.991052, CB1\_RESFLT On  
501, C60, 572, Jul 15 2023 11:21:00.267123, CB1\_RESFLT Off  
502, T60, 3595676, Jul 15 2023 11:21:00.266013, CB1\_RESFLT Off  
503, T60, 3595675, Jul 15 2023 11:20:55.552995, T1\_IMGTRMIK On  
504, C60, 571, Jul 15 2023 11:20:54.684528, CB1\_RESFLT On  
505, T60, 3595674, Jul 15 2023 11:20:54.683452, CB1\_RESFLT On  
506, T60, 3595673, Jul 15 2023 11:20:53.740945, CB2\_RESFLT On  
507, T60, 3595672, Jul 15 2023 11:20:53.738443, CB2\_RESFLT Off  
508, T60, 3595671, Jul 15 2023 11:20:52.800932, Oscillatory GOOSE  
509, C60, 570, Jul 15 2023 11:20:52.766998, CB2\_RESFLT On  
510, T60, 3595670, Jul 15 2023 11:20:52.765934, CB2\_RESFLT On  
511, C60, 569, Jul 15 2023 11:20:52.762001, CB2\_RESFLT Off  
512, T60, 3595669, Jul 15 2023 11:20:52.760933, CB2\_RESFLT Off  
513, C60, 568, Jul 15 2023 11:20:52.759496, CB2\_RESFLT On  
514, T60, 3595668, Jul 15 2023 11:20:52.758433, CB2\_RESFLT On  
515, C60, 567, Jul 15 2023 11:20:52.756998, CB2\_RESFLT Off  
516, T60, 3595667, Jul 15 2023 11:20:52.755933, CB2\_RESFLT Off  
517, C60, 566, Jul 15 2023 11:20:52.751997, CB2\_RESFLT On  
518, T60, 3595666, Jul 15 2023 11:20:52.750931, CB2\_RESFLT On  
519, C60, 565, Jul 15 2023 11:20:48.173234, 891T\_27LINEA On  
520, C60, 564, Jul 15 2023 11:20:48.173234, SYNC 1 CLS OP  
521, C60, 563, Jul 15 2023 11:20:48.173234, SYNC 1 DEAD S OP  
522, D60, 39359, Jul 15 2023 11:20:48.169766, GROUND TOC1 DPO  
523, T60, 3595665, Jul 15 2023 11:20:48.169761, NEUTRAL TOC1 DPO  
524, T60, 3595664, Jul 15 2023 11:20:48.169761, GROUND TOC1 DPO  
525, D60, 39358, Jul 15 2023 11:20:48.162267, NTRL DIR OC1 REV  
526, D60, 39357, Jul 15 2023 11:20:48.159769, PHASE TOC2 DPO C  
527, D60, 39356, Jul 15 2023 11:20:48.159769, PHASE TOC2 DPO B  
528, D60, 39355, Jul 15 2023 11:20:48.159769, PHASE TOC2 DPO A  
529, D60, 39354, Jul 15 2023 11:20:48.159769, PHASE TOC1 DPO C  
530, D60, 39353, Jul 15 2023 11:20:48.159769, PHASE TOC1 DPO B  
531, D60, 39352, Jul 15 2023 11:20:48.159769, PHASE TOC1 DPO A  
532, T60, 3595663, Jul 15 2023 11:20:48.159767, PHASE TOC2 DPO C  
533, T60, 3595662, Jul 15 2023 11:20:48.159767, PHASE TOC2 DPO B  
534, T60, 3595661, Jul 15 2023 11:20:48.159767, PHASE TOC2 DPO A  
535, T60, 3595660, Jul 15 2023 11:20:48.159767, PHASE TOC1 DPO C  
536, T60, 3595659, Jul 15 2023 11:20:48.159767, PHASE TOC1 DPO B  
537, T60, 3595658, Jul 15 2023 11:20:48.159767, PHASE TOC1 DPO A  
538, D60, 39351, Jul 15 2023 11:20:48.157271, PH DIR2 BLK B  
539, T60, 3595657, Jul 15 2023 11:20:48.157269, PH DIR1 BLK B  
540, C60, 562, Jul 15 2023 11:20:48.148262, Osc\_Trigger Off  
541, C60, 561, Jul 15 2023 11:20:48.148262, BREAKER 1 CLOSED  
542, D60, 39350, Jul 15 2023 11:20:48.147278, 52T\_TRIP2 Off  
543, D60, 39349, Jul 15 2023 11:20:48.147278, 52T\_TRIP1 Off  
544, D60, 39348, Jul 15 2023 11:20:48.147278, PHASE IOC1 DPO C  
545, T60, 3595656, Jul 15 2023 11:20:48.147279, RESERVA Off

546, T60, 3595655, Jul 15 2023 11:20:48.147279, 52T\_TRIPBF1 Off  
547, T60, 3595654, Jul 15 2023 11:20:48.147279, OSCILLOGRAPHY TRIG'D  
548, T60, 3595653, Jul 15 2023 11:20:48.147279, PHASE IOC1 DPO C  
549, C60, 560, Jul 15 2023 11:20:48.145761, OSCILLOGRAPHY TRIG'D  
550, C60, 559, Jul 15 2023 11:20:48.145761, Osc\_Trigger On  
551, T60, 3595652, Jul 15 2023 11:20:48.143454, 52T\_OP On  
552, D60, 39347, Jul 15 2023 11:20:48.142734, 52HT\_ABIERTO On  
553, T60, 3595651, Jul 15 2023 11:20:48.142471, QP\_ABFT60 Off  
554, C60, 558, Jul 15 2023 11:20:48.140765, QP\_ABFD60 Off  
555, D60, 39346, Jul 15 2023 11:20:48.136230, QP\_ABFD60 Off  
556, C60, 557, Jul 15 2023 11:20:48.130771, BREAKER 1 IA INTERM  
557, D60, 39345, Jul 15 2023 11:20:48.129799, ABF\_T60 Off  
558, T60, 3595650, Jul 15 2023 11:20:48.129797, RESERVA Off  
559, T60, 3595649, Jul 15 2023 11:20:48.129797, RESERVA Off  
560, T60, 3595648, Jul 15 2023 11:20:48.129797, TX\_ABF\_CTRAL Off  
561, T60, 3595647, Jul 15 2023 11:20:48.129797, QP\_ABFD60 Off  
562, T60, 3595646, Jul 15 2023 11:20:48.126939, 52T\_CL Off  
563, D60, 39344, Jul 15 2023 11:20:48.126227, 52HT\_CERRADO Off  
564, D60, 39343, Jul 15 2023 11:20:48.119811, BKR FAIL 1 TRIP OP  
565, C60, 556, Jul 15 2023 11:20:48.100789, QP\_ABFD60 On  
566, T60, 3595645, Jul 15 2023 11:20:48.100000, QP\_ABFT60 On  
567, T60, 3595644, Jul 15 2023 11:20:48.094839, BKR FAIL 1 TRIP OP  
568, D60, 39342, Jul 15 2023 11:20:48.094218, QP\_ABFD60 On  
569, D60, 39341, Jul 15 2023 11:20:48.092344, ABF\_T60 On  
570, D60, 39340, Jul 15 2023 11:20:48.089847, 52T\_TRIP2 On  
571, D60, 39339, Jul 15 2023 11:20:48.089847, 52T\_TRIP1 On  
572, D60, 39338, Jul 15 2023 11:20:48.089847, PHASE IOC1 OP C  
573, T60, 3595643, Jul 15 2023 11:20:48.087347, TX\_ABF\_CTRAL On  
574, T60, 3595642, Jul 15 2023 11:20:48.087347, QP\_ABFD60 On  
575, T60, 3595641, Jul 15 2023 11:20:48.087347, RESERVA On  
576, T60, 3595640, Jul 15 2023 11:20:48.087347, 52T\_TRIPBF1 On  
577, T60, 3595639, Jul 15 2023 11:20:48.087347, PHASE IOC1 OP C  
578, T60, 3595638, Jul 15 2023 11:20:47.899987, PH DIR1 BLK B  
579, D60, 39337, Jul 15 2023 11:20:47.897479, PH DIR2 BLK B  
580, T60, 3595637, Jul 15 2023 11:20:47.760154, OSCILLOGRAPHY TRIG'D  
581, T60, 3595636, Jul 15 2023 11:20:47.760154, PHASE TOC2 PKP C  
582, T60, 3595635, Jul 15 2023 11:20:47.760154, PHASE TOC2 PKP B  
583, T60, 3595634, Jul 15 2023 11:20:47.760154, PHASE TOC2 PKP A  
584, T60, 3595633, Jul 15 2023 11:20:47.760154, PHASE TOC1 PKP C  
585, T60, 3595632, Jul 15 2023 11:20:47.760154, PHASE TOC1 PKP B  
586, T60, 3595631, Jul 15 2023 11:20:47.760154, PHASE TOC1 PKP A  
587, D60, 39336, Jul 15 2023 11:20:47.760148, PHASE TOC2 PKP C  
588, D60, 39335, Jul 15 2023 11:20:47.760148, PHASE TOC2 PKP B  
589, D60, 39334, Jul 15 2023 11:20:47.760148, PHASE TOC2 PKP A  
590, D60, 39333, Jul 15 2023 11:20:47.760148, PHASE TOC1 PKP C  
591, D60, 39332, Jul 15 2023 11:20:47.760148, PHASE TOC1 PKP B  
592, D60, 39331, Jul 15 2023 11:20:47.760148, PHASE TOC1 PKP A  
593, T60, 3595630, Jul 15 2023 11:20:47.757660, PHASE IOC1 PKP C  
594, D60, 39330, Jul 15 2023 11:20:47.757654, PHASE IOC1 PKP C  
595, T60, 3595629, Jul 15 2023 11:20:47.750174, OSCILLOGRAPHY TRIG'D

596, T60, 3595628, Jul 15 2023 11:20:47.750174, NEUTRAL TOC1 PKP  
597, T60, 3595627, Jul 15 2023 11:20:47.750174, GROUND TOC1 PKP  
598, D60, 39329, Jul 15 2023 11:20:47.750168, GROUND TOC1 PKP  
599, D60, 39328, Jul 15 2023 11:20:47.740181, NTRL DIR OC1 FWD  
600, T60, 3595626, Jul 15 2023 11:20:47.735195, PH DIR1 BLK A  
601, D60, 39327, Jul 15 2023 11:20:47.735188, PH DIR2 BLK A  
602, C60, 555, Jul 15 2023 11:20:47.733536, Osc\_Trigger Off  
603, T60, 3595625, Jul 15 2023 11:20:47.732697, OSCILLOGRAPHY TRIG'D  
604, T60, 3595624, Jul 15 2023 11:20:47.732697, PH DIR1 BLK B  
605, D60, 39326, Jul 15 2023 11:20:47.732690, PH DIR2 BLK B  
606, C60, 554, Jul 15 2023 11:20:47.731039, OSCILLOGRAPHY TRIG'D  
607, C60, 553, Jul 15 2023 11:20:47.731039, Osc\_Trigger On  
608, D60, 39325, Jul 13 2023 19:17:10.466203, PH DIR2 BLK B  
609, D60, 39324, Jul 13 2023 19:17:08.857201, PH DIR2 BLK B  
610, T60, 3595623, Jul 13 2023 19:17:07.867936, PH DIR1 BLK B  
611, D60, 39323, Jul 13 2023 19:17:05.225640, PH DIR2 BLK A  
612, T60, 3595622, Jul 13 2023 19:17:05.148239, PH DIR1 BLK A  
613, T60, 3595621, Jul 13 2023 16:26:32.029465, PH DIR1 BLK A  
614, D60, 39322, Jul 13 2023 16:26:31.682195, PH DIR2 BLK A  
615, D60, 39305, Jul 13 2023 16:25:36.800214, PH DIR2 BLK A  
616, D60, 39304, Jul 13 2023 16:25:30.068039, PH DIR2 BLK A  
617, T60, 3595620, Jul 13 2023 15:26:24.105643, PH DIR1 BLK C  
618, D60, 39321, Jul 13 2023 15:26:20.896868, PH DIR2 BLK C  
619, D60, 39320, Jul 13 2023 15:26:19.919776, PH DIR2 BLK C  
620, D60, 39319, Jul 13 2023 15:26:19.667356, PH DIR2 BLK C  
621, D60, 39318, Jul 13 2023 15:26:18.967607, PH DIR2 BLK C  
622, D60, 39317, Jul 13 2023 15:26:18.770195, PH DIR2 BLK C  
623, D60, 39316, Jul 13 2023 15:26:18.080450, PH DIR2 BLK C  
624, T60, 3595619, Jul 13 2023 15:26:17.890531, PH DIR1 BLK C  
625, D60, 39315, Jul 13 2023 15:26:17.873031, PH DIR2 BLK B  
626, T60, 3595618, Jul 13 2023 15:26:17.870540, PH DIR1 BLK B  
627, D60, 39314, Jul 13 2023 15:26:17.795568, PH DIR2 BLK A  
628, T60, 3595617, Jul 13 2023 15:26:17.793077, PH DIR1 BLK A  
629, T60, 3595616, Jul 13 2023 15:26:17.213363, PH DIR1 BLK A  
630, D60, 39313, Jul 13 2023 15:26:01.472923, PH DIR2 BLK C  
631, T60, 3595615, Jul 13 2023 15:26:01.465423, PH DIR1 BLK C  
632, D60, 39312, Jul 13 2023 15:26:00.772607, PH DIR2 BLK C  
633, D60, 39311, Jul 13 2023 15:25:56.370344, PH DIR2 BLK C  
634, D60, 39310, Jul 13 2023 15:25:55.737495, PH DIR2 BLK C  
635, D60, 39309, Jul 13 2023 15:25:55.202253, PH DIR2 BLK C  
636, T60, 3595614, Jul 13 2023 15:25:55.152224, PH DIR1 BLK C  
637, D60, 39308, Jul 13 2023 15:25:55.134722, PH DIR2 BLK B  
638, T60, 3595613, Jul 13 2023 15:25:55.127215, PH DIR1 BLK B  
639, D60, 39307, Jul 13 2023 15:25:55.059681, PH DIR2 BLK A  
640, T60, 3595612, Jul 13 2023 15:25:55.057187, PH DIR1 BLK A  
641, D60, 39306, Jul 13 2023 15:25:43.900616, PH DIR2 BLK A  
642, T60, 3595611, Jul 13 2023 15:25:43.898126, PH DIR1 BLK A  
643, T60, 3595610, Jul 13 2023 15:25:29.762514, PH DIR1 BLK A  
644, T60, 3595609, Jul 12 2023 05:07:00.406006, PH DIR1 BLK A  
645, D60, 39303, Jul 12 2023 05:07:00.405991, PH DIR2 BLK A

646, D60, 39300, Jul 12 2023 02:21:37.766462, PH DIR2 BLK A  
647, T60, 3595599, Jul 12 2023 02:21:36.548896, PH DIR1 BLK A  
648, D60, 39299, Jul 12 2023 02:21:35.295924, PH DIR2 BLK C  
649, T60, 3595598, Jul 12 2023 02:21:34.911874, PH DIR1 BLK C  
650, D60, 39298, Jul 12 2023 02:21:34.679560, PH DIR2 BLK B  
651, T60, 3595597, Jul 12 2023 02:21:33.986076, PH DIR1 BLK B  
652, C60, 552, Jul 12 2023 02:13:57.481031, Osc\_Trigger Off  
653, C60, 551, Jul 12 2023 02:13:57.478528, OSCILLOGRAPHY TRIG'D  
654, C60, 550, Jul 12 2023 02:13:57.478528, Osc\_Trigger On  
655, T60, 3595608, Jul 12 2023 02:13:57.477689, OSCILLOGRAPHY TRIG'D  
656, C60, 549, Jul 12 2023 02:07:23.083638, Osc\_Trigger Off  
657, T60, 3595607, Jul 12 2023 02:07:23.082499, OSCILLOGRAPHY TRIG'D  
658, C60, 548, Jul 12 2023 02:07:23.081140, OSCILLOGRAPHY TRIG'D  
659, C60, 547, Jul 12 2023 02:07:23.081140, Osc\_Trigger On  
660, C60, 546, Jul 12 2023 02:07:22.811417, Osc\_Trigger Off  
661, C60, 545, Jul 12 2023 02:07:22.808922, OSCILLOGRAPHY TRIG'D  
662, C60, 544, Jul 12 2023 02:07:22.808922, Osc\_Trigger On  
663, T60, 3595606, Jul 12 2023 02:07:22.808059, OSCILLOGRAPHY TRIG'D  
664, C60, 543, Jul 12 2023 02:07:22.581809, Osc\_Trigger Off  
665, C60, 542, Jul 12 2023 02:07:22.579312, OSCILLOGRAPHY TRIG'D  
666, C60, 541, Jul 12 2023 02:07:22.579312, Osc\_Trigger On  
667, T60, 3595605, Jul 12 2023 02:07:22.578368, OSCILLOGRAPHY TRIG'D  
668, D60, 39302, Jul 12 2023 02:07:22.498541, PH DIR2 BLK B  
669, T60, 3595604, Jul 12 2023 02:07:22.498535, PH DIR1 BLK B  
670, C60, 540, Jul 12 2023 02:07:22.481915, Osc\_Trigger Off  
671, T60, 3595603, Jul 12 2023 02:07:22.481072, OSCILLOGRAPHY TRIG'D  
672, C60, 539, Jul 12 2023 02:07:22.479420, OSCILLOGRAPHY TRIG'D  
673, C60, 538, Jul 12 2023 02:07:22.479420, Osc\_Trigger On  
674, C60, 537, Jul 12 2023 01:42:21.468161, Osc\_Trigger Off  
675, T60, 3595602, Jul 12 2023 01:42:21.466976, OSCILLOGRAPHY TRIG'D  
676, C60, 536, Jul 12 2023 01:42:21.465661, OSCILLOGRAPHY TRIG'D  
677, C60, 535, Jul 12 2023 01:42:21.465661, Osc\_Trigger On  
678, D60, 39301, Jul 12 2023 01:42:21.217332, PH DIR2 BLK B  
679, T60, 3595601, Jul 12 2023 01:42:21.217332, PH DIR1 BLK B  
680, C60, 534, Jul 12 2023 01:42:21.203199, Osc\_Trigger Off  
681, T60, 3595600, Jul 12 2023 01:42:21.202349, OSCILLOGRAPHY TRIG'D  
682, C60, 533, Jul 12 2023 01:42:21.200699, OSCILLOGRAPHY TRIG'D  
683, C60, 532, Jul 12 2023 01:42:21.200699, Osc\_Trigger On  
684, T60, 3595596, Jul 08 2023 13:46:51.334130, PH DIR1 BLK A  
685, D60, 39297, Jul 05 2023 14:54:25.324704, PH DIR2 BLK C  
686, T60, 3595595, Jul 05 2023 14:54:25.324705, PH DIR1 BLK C  
687, T60, 3595594, Jul 05 2023 14:54:25.287190, PH DIR1 BLK B  
688, D60, 39296, Jul 05 2023 14:54:25.287180, PH DIR2 BLK B  
689, C60, 531, Jul 05 2023 14:54:25.220508, Osc\_Trigger Off  
690, C60, 530, Jul 05 2023 14:54:25.218006, OSCILLOGRAPHY TRIG'D  
691, C60, 529, Jul 05 2023 14:54:25.218006, Osc\_Trigger On  
692, T60, 3595593, Jul 05 2023 14:54:25.217171, OSCILLOGRAPHY TRIG'D  
693, T60, 3595592, Jun 30 2023 14:08:37.463698, PH DIR1 BLK A  
694, D60, 39295, Jun 30 2023 14:08:37.445288, PH DIR2 BLK A  
695, D60, 39294, Jun 29 2023 17:27:39.229038, PH DIR2 BLK C



696, D60, 39293, Jun 29 2023 17:27:39.226539, PH DIR2 BLK A  
697, T60, 3595591, Jun 29 2023 17:27:39.219380, PH DIR1 BLK B  
698, T60, 3595590, Jun 29 2023 17:27:39.206885, PH DIR1 BLK C  
699, D60, 39292, Jun 29 2023 17:27:39.206545, PH DIR2 BLK B  
700, T60, 3595589, Jun 29 2023 17:27:39.204385, PH DIR1 BLK A  
701, T60, 3595588, Jun 29 2023 17:27:39.181892, PH DIR1 BLK B  
702, T60, 3595587, Jun 29 2023 11:24:24.656112, PH DIR1 BLK C  
703, D60, 39291, Jun 29 2023 11:24:24.656105, PH DIR2 BLK C  
704, D60, 39290, Jun 29 2023 11:24:24.651102, PH DIR2 BLK B  
705, T60, 3595586, Jun 29 2023 11:24:24.648607, PH DIR1 BLK B  
706, D60, 39289, Jun 29 2023 08:39:06.037638, PH DIR2 BLK B  
707, T60, 3595585, Jun 29 2023 08:39:06.030155, PH DIR1 BLK B  
708, T60, 3595584, Jun 24 2023 12:29:27.090034, PH DIR1 BLK B  
709, T60, 3595583, Jun 24 2023 12:29:27.000305, PH DIR1 BLK B  
710, T60, 3595582, Jun 24 2023 12:29:24.804552, PH DIR1 BLK B  
711, D60, 39288, Jun 24 2023 03:48:42.680288, PH DIR2 BLK B  
712, T60, 3595581, Jun 24 2023 03:48:42.677800, PH DIR1 BLK B  
713, T60, 3595580, Jun 24 2023 03:40:15.458736, PH DIR1 BLK B  
714, T60, 3595579, Jun 24 2023 03:08:31.616837, PH DIR1 BLK B  
715, T60, 3595578, Jun 22 2023 13:17:34.710131, OSCILLOGRAPHY TRIG'D  
716, T60, 3595577, Jun 17 2023 17:50:18.736033, T1\_IMGTRMIK Off  
717, T60, 3595576, Jun 17 2023 17:50:00.645828, T1\_IMGTRMIK On  
718, C60, 528, Jun 15 2023 15:17:14.678909, Osc\_Trigger Off  
719, C60, 527, Jun 15 2023 15:17:14.676408, OSCILLOGRAPHY TRIG'D  
720, C60, 526, Jun 15 2023 15:17:14.676408, Osc\_Trigger On  
721, T60, 3595575, Jun 15 2023 15:17:14.675566, OSCILLOGRAPHY TRIG'D  
722, D60, 39287, Jun 14 2023 01:00:16.880147, PH DIR2 BLK A  
723, T60, 3595574, Jun 14 2023 01:00:16.877651, PH DIR1 BLK A  
724, D60, 39286, Jun 14 2023 01:00:15.599236, PH DIR2 BLK C  
725, T60, 3595573, Jun 14 2023 01:00:15.306579, PH DIR1 BLK C  
726, D60, 39285, Jun 14 2023 01:00:14.723714, PH DIR2 BLK B  
727, T60, 3595572, Jun 14 2023 01:00:14.358521, PH DIR1 BLK B  
728, D60, 39284, Jun 11 2023 15:51:44.172768, PH DIR2 BLK B  
729, T60, 3595571, Jun 11 2023 15:51:44.172767, PH DIR1 BLK B  
730, T60, 3595570, Jun 11 2023 04:47:45.870858, PH DIR1 BLK B  
731, C60, 525, Jun 10 2023 15:07:20.299517, Osc\_Trigger Off  
732, T60, 3595569, Jun 10 2023 15:07:20.298672, OSCILLOGRAPHY TRIG'D  
733, C60, 524, Jun 10 2023 15:07:20.297017, OSCILLOGRAPHY TRIG'D  
734, C60, 523, Jun 10 2023 15:07:20.297017, Osc\_Trigger On  
735, T60, 3595568, Jun 10 2023 01:21:46.739515, PH DIR1 BLK B  
736, D60, 39283, Jun 10 2023 01:21:46.739508, PH DIR2 BLK B  
737, C60, 522, Jun 10 2023 01:21:46.725432, Osc\_Trigger Off  
738, C60, 521, Jun 10 2023 01:21:46.722932, OSCILLOGRAPHY TRIG'D  
739, C60, 520, Jun 10 2023 01:21:46.722932, Osc\_Trigger On  
740, C60, 519, Jun 10 2023 01:21:46.667923, Osc\_Trigger Off  
741, C60, 518, Jun 10 2023 01:21:46.665424, OSCILLOGRAPHY TRIG'D  
742, C60, 517, Jun 10 2023 01:21:46.665424, Osc\_Trigger On  
743, T60, 3595567, Jun 08 2023 17:46:13.432275, T1\_IMGTRMIK Off  
744, T60, 3595566, Jun 08 2023 17:46:10.657602, T1\_IMGTRMIK On  
745, T60, 3595565, Jun 04 2023 02:06:22.498401, PH DIR1 BLK B

746, D60, 39282, Jun 04 2023 02:06:18.696855, PH DIR2 BLK C  
747, T60, 3595564, Jun 04 2023 02:06:18.691863, PH DIR1 BLK C  
748, T60, 3595563, Jun 04 2023 02:06:18.644373, PH DIR1 BLK C  
749, T60, 3595562, Jun 04 2023 02:06:18.614380, PH DIR1 BLK C  
750, D60, 39281, Jun 04 2023 02:06:18.591878, PH DIR2 BLK C  
751, D60, 39280, Jun 04 2023 02:06:18.286939, PH DIR2 BLK C  
752, D60, 39279, Jun 04 2023 02:06:18.251946, PH DIR2 BLK C  
753, T60, 3595561, Jun 04 2023 02:06:18.224456, PH DIR1 BLK C  
754, D60, 39278, Jun 04 2023 02:06:18.221953, PH DIR2 BLK C  
755, D60, 39277, Jun 04 2023 02:06:18.194463, PH DIR2 BLK C  
756, T60, 3595560, Jun 04 2023 02:06:18.071984, PH DIR1 BLK C  
757, D60, 39276, Jun 04 2023 02:06:18.069485, PH DIR2 BLK C  
758, T60, 3595559, Jun 04 2023 02:06:18.041990, PH DIR1 BLK C  
759, D60, 39275, Jun 04 2023 02:06:17.984482, PH DIR2 BLK C  
760, D60, 39274, Jun 04 2023 02:06:17.929494, PH DIR2 BLK C  
761, D60, 39273, Jun 04 2023 02:06:17.874503, PH DIR2 BLK C  
762, D60, 39272, Jun 04 2023 02:06:17.822014, PH DIR2 BLK C  
763, D60, 39271, Jun 04 2023 02:06:17.792023, PH DIR2 BLK C  
764, T60, 3595558, Jun 04 2023 02:06:17.772034, PH DIR1 BLK C  
765, D60, 39270, Jun 04 2023 02:06:17.772026, PH DIR2 BLK C  
766, T60, 3595557, Jun 04 2023 02:06:17.722043, PH DIR1 BLK C  
767, T60, 3595556, Jun 04 2023 02:06:17.702048, PH DIR1 BLK C  
768, D60, 39269, Jun 04 2023 02:06:17.672046, PH DIR2 BLK C  
769, T60, 3595555, Jun 04 2023 02:06:17.669555, PH DIR1 BLK C  
770, T60, 3595554, Jun 04 2023 02:06:17.649559, PH DIR1 BLK C  
771, T60, 3595553, Jun 04 2023 02:06:17.622079, PH DIR1 BLK C  
772, D60, 39268, Jun 04 2023 02:06:17.622059, PH DIR2 BLK C  
773, T60, 3595552, Jun 04 2023 02:06:17.594577, PH DIR1 BLK C  
774, D60, 39267, Jun 04 2023 02:06:17.592068, PH DIR2 BLK C  
775, T60, 3595551, Jun 04 2023 02:06:17.572076, PH DIR1 BLK C  
776, T60, 3595550, Jun 04 2023 02:06:17.452101, PH DIR1 BLK C  
777, D60, 39266, Jun 04 2023 02:06:17.402108, PH DIR2 BLK C  
778, T60, 3595549, Jun 04 2023 02:06:17.374618, PH DIR1 BLK C  
779, T60, 3595548, Jun 04 2023 02:06:17.352122, PH DIR1 BLK C  
780, D60, 39265, Jun 04 2023 02:06:17.344619, PH DIR2 BLK C  
781, D60, 39264, Jun 04 2023 02:06:17.322125, PH DIR2 BLK C  
782, D60, 39263, Jun 04 2023 02:06:17.294631, PH DIR2 BLK C  
783, T60, 3595547, Jun 04 2023 02:06:17.292136, PH DIR1 BLK C  
784, T60, 3595546, Jun 04 2023 02:06:17.249645, PH DIR1 BLK C  
785, T60, 3595545, Jun 04 2023 02:06:17.224651, PH DIR1 BLK C  
786, T60, 3595544, Jun 04 2023 02:06:17.147165, PH DIR1 BLK C  
787, T60, 3595543, Jun 04 2023 02:06:17.122167, PH DIR1 BLK C  
788, T60, 3595542, Jun 04 2023 02:06:17.009689, PH DIR1 BLK C  
789, D60, 39262, Jun 04 2023 02:06:17.004693, PH DIR2 BLK C  
790, T60, 3595541, Jun 04 2023 02:06:16.489799, PH DIR1 BLK A  
791, T60, 3595540, Jun 04 2023 02:06:16.159880, PH DIR1 BLK A  
792, T60, 3595539, Jun 04 2023 02:06:16.137386, PH DIR1 BLK A  
793, T60, 3595538, Jun 04 2023 02:06:16.109891, PH DIR1 BLK A  
794, T60, 3595537, Jun 04 2023 02:06:16.082396, PH DIR1 BLK A  
795, T60, 3595536, Jun 04 2023 02:06:16.039907, PH DIR1 BLK A

796, D60, 39261, Jun 04 2023 02:06:16.017428, PH DIR2 BLK A  
797, T60, 3595535, Jun 04 2023 02:06:16.009913, PH DIR1 BLK A  
798, D60, 39260, Jun 04 2023 02:06:15.989900, PH DIR2 BLK A  
799, T60, 3595534, Jun 04 2023 02:06:15.987406, PH DIR1 BLK A  
800, T60, 3595533, Jun 04 2023 02:06:15.962415, PH DIR1 BLK A  
801, T60, 3595532, Jun 04 2023 02:06:15.937421, PH DIR1 BLK A  
802, D60, 39259, Jun 04 2023 02:06:15.912416, PH DIR2 BLK A  
803, T60, 3595531, Jun 04 2023 02:06:15.904928, PH DIR1 BLK A  
804, T60, 3595530, Jun 04 2023 02:06:15.882433, PH DIR1 BLK A  
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1300, D60, 39024, May 27 2023 14:10:40.860170, PH DIR2 BLK C  
1301, D60, 39023, May 27 2023 14:10:40.857663, PH DIR2 BLK A  
1302, T60, 3595273, May 27 2023 14:10:40.842605, PH DIR1 BLK A  
1303, T60, 3595272, May 27 2023 14:10:40.797425, PH DIR1 BLK C  
1304, D60, 39022, May 27 2023 14:10:40.797416, PH DIR2 BLK C  
1305, T60, 3595271, May 27 2023 14:10:40.794916, PH DIR1 BLK A  
1306, D60, 39021, May 27 2023 14:10:40.794906, PH DIR2 BLK A  
1307, T60, 3595270, May 27 2023 14:10:40.767302, PH DIR1 BLK A  
1308, D60, 39020, May 27 2023 14:10:40.767296, PH DIR2 BLK C  
1309, T60, 3595269, May 27 2023 14:10:40.747222, PH DIR1 BLK C  
1310, D60, 39019, May 27 2023 14:10:40.744703, PH DIR2 BLK C  
1311, D60, 39018, May 27 2023 14:10:40.734664, PH DIR2 BLK A  
1312, D60, 39017, May 27 2023 14:10:40.704544, PH DIR2 BLK A  
1313, D60, 39016, May 27 2023 14:10:40.676933, PH DIR2 BLK A  
1314, T60, 3595268, May 27 2023 14:10:40.671918, PH DIR1 BLK A  
1315, D60, 39015, May 27 2023 14:10:40.624222, PH DIR2 BLK A  
1316, T60, 3595267, May 27 2023 14:10:40.621730, PH DIR1 BLK A  
1317, D60, 39014, May 27 2023 14:10:40.453532, PH DIR2 BLK C  
1318, T60, 3595266, May 27 2023 14:10:40.446007, PH DIR1 BLK C  
1319, D60, 39013, May 27 2023 14:10:40.440980, PH DIR2 BLK A  
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1321, T60, 3595264, May 27 2023 14:10:40.375720, PH DIR1 BLK C  
1322, D60, 39012, May 27 2023 14:10:40.370696, PH DIR2 BLK A  
1323, T60, 3595263, May 27 2023 14:10:40.360673, PH DIR1 BLK A  
1324, D60, 39011, May 27 2023 14:10:40.315476, PH DIR2 BLK A  
1325, T60, 3595262, May 27 2023 14:10:40.312967, PH DIR1 BLK A  
1326, T60, 3595261, May 27 2023 14:10:40.292887, PH DIR1 BLK A  
1327, T60, 3595259, May 25 2023 18:53:13.143185, T1\_IMGTRMIK Off  
1328, T60, 3595258, May 25 2023 18:53:06.147856, T1\_IMGTRMIK On  
1329, C60, 513, May 25 2023 01:24:04.241073, Osc\_Trigger Off  
1330, C60, 512, May 25 2023 01:24:04.238579, OSCILLOGRAPHY TRIG'D  
1331, C60, 511, May 25 2023 01:24:04.238579, Osc\_Trigger On  
1332, T60, 3595257, May 25 2023 01:24:04.237734, OSCILLOGRAPHY TRIG'D  
1333, T60, 3595256, May 25 2023 01:23:58.551137, OSCILLOGRAPHY TRIG'D  
1334, C60, 510, May 25 2023 01:23:58.539506, Osc\_Trigger Off  
1335, C60, 509, May 25 2023 01:23:58.537010, OSCILLOGRAPHY TRIG'D  
1336, C60, 508, May 25 2023 01:23:58.537010, Osc\_Trigger On  
1337, C60, 507, May 21 2023 22:40:27.934931, Osc\_Trigger Off  
1338, C60, 506, May 21 2023 22:40:27.932436, OSCILLOGRAPHY TRIG'D  
1339, C60, 505, May 21 2023 22:40:27.932436, Osc\_Trigger On  
1340, C60, 504, May 21 2023 22:40:27.815218, Osc\_Trigger Off  
1341, T60, 3595255, May 21 2023 22:40:27.814379, OSCILLOGRAPHY TRIG'D  
1342, C60, 503, May 21 2023 22:40:27.812723, OSCILLOGRAPHY TRIG'D  
1343, C60, 502, May 21 2023 22:40:27.812723, Osc\_Trigger On  
1344, C60, 501, May 21 2023 22:40:05.406260, Osc\_Trigger Off  
1345, T60, 3595254, May 21 2023 22:40:05.405612, OSCILLOGRAPHY TRIG'D

1346, C60, 500, May 21 2023 22:40:05.403765, OSCILLOGRAPHY TRIG'D  
1347, C60, 499, May 21 2023 22:40:05.403765, Osc\_Trigger On  
1348, C60, 498, May 21 2023 22:40:05.286571, Osc\_Trigger Off  
1349, C60, 497, May 21 2023 22:40:05.284076, OSCILLOGRAPHY TRIG'D  
1350, C60, 496, May 21 2023 22:40:05.284076, Osc\_Trigger On  
1351, T60, 3595253, May 21 2023 22:40:05.283233, OSCILLOGRAPHY TRIG'D  
1352, T60, 3595252, May 20 2023 14:44:11.109698, PH DIR1 BLK B  
1353, T60, 3595247, May 19 2023 17:49:39.285836, PH DIR1 BLK A  
1354, T60, 3595246, May 19 2023 17:49:37.724767, PH DIR1 BLK A  
1355, D60, 39009, May 19 2023 17:49:36.778764, PH DIR2 BLK A  
1356, T60, 3595245, May 19 2023 17:49:36.750755, PH DIR1 BLK A  
1357, T60, 3595244, May 19 2023 17:49:36.458570, PH DIR1 BLK A  
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1365, T60, 3595237, May 19 2023 17:49:35.140231, PH DIR1 BLK A  
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1369, T60, 3595233, May 19 2023 17:49:34.900564, PH DIR1 BLK A  
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1373, T60, 3595230, May 19 2023 17:49:34.748284, PH DIR1 BLK A  
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1383, D60, 39001, May 19 2023 17:49:34.334459, PH DIR2 BLK A  
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1393, D60, 38995, May 19 2023 17:49:33.950027, PH DIR2 BLK A  
1394, D60, 38994, May 19 2023 17:49:33.895108, PH DIR2 BLK A  
1395, T60, 3595221, May 19 2023 17:49:33.872066, PH DIR1 BLK A

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1542, T60, 3595161, May 19 2023 16:49:23.379481, PH DIR1 BLK A  
1543, D60, 38910, May 19 2023 16:49:23.379473, PH DIR2 BLK A  
1544, D60, 38909, May 19 2023 16:49:23.332032, PH DIR2 BLK A  
1545, T60, 3595160, May 19 2023 16:49:23.329542, PH DIR1 BLK A

1546, D60, 38908, May 19 2023 16:49:23.289586, PH DIR2 BLK A  
1547, T60, 3595159, May 19 2023 16:49:23.284594, PH DIR1 BLK A  
1548, D60, 38907, May 19 2023 16:49:23.239651, PH DIR2 BLK A  
1549, T60, 3595158, May 19 2023 16:49:23.239648, PH DIR1 BLK A  
1550, T60, 3595157, May 19 2023 16:49:23.189712, PH DIR1 BLK A  
1551, D60, 38906, May 19 2023 16:49:23.134788, PH DIR2 BLK A  
1552, T60, 3595156, May 19 2023 16:49:23.134778, PH DIR1 BLK A  
1553, D60, 38905, May 19 2023 16:49:23.092335, PH DIR2 BLK A  
1554, T60, 3595155, May 19 2023 16:49:23.089832, PH DIR1 BLK A  
1555, D60, 38904, May 19 2023 16:49:23.039891, PH DIR2 BLK A  
1556, T60, 3595154, May 19 2023 16:49:23.039890, PH DIR1 BLK A  
1557, T60, 3595153, May 19 2023 16:49:22.992442, PH DIR1 BLK A  
1558, D60, 38903, May 19 2023 16:49:22.992433, PH DIR2 BLK A  
1559, T60, 3595152, May 19 2023 16:49:22.949994, PH DIR1 BLK A  
1560, D60, 38902, May 19 2023 16:49:22.890058, PH DIR2 BLK A  
1561, T60, 3595151, May 19 2023 16:49:22.885074, PH DIR1 BLK A  
1562, D60, 38901, May 19 2023 16:49:22.842616, PH DIR2 BLK A  
1563, T60, 3595150, May 19 2023 16:49:22.840127, PH DIR1 BLK A  
1564, T60, 3595149, May 19 2023 16:49:22.795185, PH DIR1 BLK A  
1565, D60, 38900, May 19 2023 16:49:22.795177, PH DIR2 BLK A  
1566, T60, 3595148, May 19 2023 16:49:22.742767, PH DIR1 BLK A  
1567, D60, 38899, May 19 2023 16:49:22.742743, PH DIR2 BLK A  
1568, D60, 38898, May 19 2023 16:49:22.700306, PH DIR2 BLK A  
1569, T60, 3595147, May 19 2023 16:49:22.692813, PH DIR1 BLK A  
1570, D60, 38897, May 19 2023 16:49:22.660348, PH DIR2 BLK A  
1571, T60, 3595146, May 19 2023 16:49:22.650364, PH DIR1 BLK A  
1572, T60, 3595145, May 19 2023 16:49:22.600425, PH DIR1 BLK A  
1573, D60, 38896, May 19 2023 16:49:22.600422, PH DIR2 BLK A  
1574, T60, 3595144, May 19 2023 16:49:22.550490, PH DIR1 BLK A  
1575, D60, 38895, May 19 2023 16:49:22.460602, PH DIR2 BLK A  
1576, T60, 3595143, May 19 2023 16:49:22.453116, PH DIR1 BLK A  
1577, D60, 38894, May 19 2023 16:49:22.243381, PH DIR2 BLK A  
1578, D60, 38893, May 19 2023 16:49:22.203433, PH DIR2 BLK A  
1579, T60, 3595142, May 19 2023 16:49:22.200939, PH DIR1 BLK A  
1580, D60, 38892, May 19 2023 16:49:22.168479, PH DIR2 BLK A  
1581, T60, 3595141, May 19 2023 16:49:22.163487, PH DIR1 BLK A  
1582, D60, 38891, May 19 2023 16:49:22.116048, PH DIR2 BLK A  
1583, T60, 3595140, May 19 2023 16:49:22.113550, PH DIR1 BLK A  
1584, D60, 38890, May 19 2023 16:49:21.881332, PH DIR2 BLK A  
1585, T60, 3595139, May 19 2023 16:49:21.876353, PH DIR1 BLK A  
1586, T60, 3595138, May 19 2023 16:49:21.836402, PH DIR1 BLK A  
1587, T60, 3595137, May 19 2023 16:49:21.781472, PH DIR1 BLK A  
1588, T60, 3595136, May 18 2023 13:12:38.444859, PH DIR1 BLK A  
1589, T60, 3595135, May 18 2023 13:12:37.566924, PH DIR1 BLK A  
1590, D60, 38889, May 18 2023 13:12:37.220448, PH DIR2 BLK A  
1591, D60, 38888, May 18 2023 13:12:35.674927, PH DIR2 BLK A  
1592, T60, 3595134, May 18 2023 13:12:34.275679, PH DIR1 BLK A  
1593, T60, 3595133, May 18 2023 12:12:07.522069, PH DIR1 BLK A  
1594, D60, 38887, May 17 2023 15:57:31.655396, PH DIR2 BLK A  
1595, T60, 3595132, May 17 2023 15:57:31.081495, PH DIR1 BLK A

1596, D60, 38886, May 17 2023 14:56:54.150237, PH DIR2 BLK A  
1597, T60, 3595131, May 17 2023 14:56:53.767079, PH DIR1 BLK A  
1598, D60, 38885, May 12 2023 23:22:53.378447, PH DIR2 BLK B  
1599, T60, 3595130, May 12 2023 23:22:52.279345, PH DIR1 BLK B  
1600, T60, 3595129, May 09 2023 22:20:13.614737, T1\_IMGTRMIK Off  
1601, T60, 3595128, May 09 2023 22:20:10.066856, T1\_IMGTRMIK On  
1602, C60, 495, May 09 2023 16:19:43.374905, Osc\_Trigger Off  
1603, C60, 494, May 09 2023 16:19:43.372406, OSCILLOGRAPHY TRIG'D  
1604, C60, 493, May 09 2023 16:19:43.372406, Osc\_Trigger On  
1605, T60, 3595127, May 09 2023 16:19:43.371560, OSCILLOGRAPHY TRIG'D  
1606, T60, 3595124, May 09 2023 13:38:33.496053, OSCILLOGRAPHY TRIG'D  
1607, C60, 492, May 09 2023 13:38:33.480479, Osc\_Trigger Off  
1608, C60, 491, May 09 2023 13:38:33.477985, OSCILLOGRAPHY TRIG'D  
1609, C60, 490, May 09 2023 13:38:33.477985, Osc\_Trigger On  
1610, T60, 3595123, May 09 2023 13:38:31.914464, OSCILLOGRAPHY TRIG'D  
1611, C60, 489, May 09 2023 13:38:31.899012, Osc\_Trigger Off  
1612, C60, 488, May 09 2023 13:38:31.896524, OSCILLOGRAPHY TRIG'D  
1613, C60, 487, May 09 2023 13:38:31.896524, Osc\_Trigger On  
1614, T60, 3595122, May 09 2023 13:38:31.269358, OSCILLOGRAPHY TRIG'D  
1615, C60, 486, May 09 2023 13:38:31.253796, Osc\_Trigger Off  
1616, C60, 485, May 09 2023 13:38:31.251307, OSCILLOGRAPHY TRIG'D  
1617, C60, 484, May 09 2023 13:38:31.251307, Osc\_Trigger On  
1618, D60, 38884, May 09 2023 12:38:48.323945, PH DIR2 BLK A  
1619, T60, 3595126, May 09 2023 12:38:48.316481, PH DIR1 BLK A  
1620, D60, 38883, May 09 2023 12:38:47.331094, PH DIR2 BLK A  
1621, D60, 38882, May 09 2023 12:38:41.632416, PH DIR2 BLK A  
1622, T60, 3595125, May 09 2023 12:38:41.629960, PH DIR1 BLK A  
1623, D60, 38881, May 06 2023 12:35:32.670172, PH DIR2 BLK A  
1624, T60, 3595121, May 06 2023 12:35:32.662103, PH DIR1 BLK B  
1625, T60, 3595120, May 06 2023 12:35:32.652113, PH DIR1 BLK A  
1626, C60, 483, May 06 2023 12:35:31.803629, Osc\_Trigger Off  
1627, C60, 482, May 06 2023 12:35:31.801131, OSCILLOGRAPHY TRIG'D  
1628, C60, 481, May 06 2023 12:35:31.801131, Osc\_Trigger On  
1629, T60, 3595119, May 06 2023 12:35:31.778286, OSCILLOGRAPHY TRIG'D  
1630, D60, 38880, May 06 2023 12:35:31.678952, PH DIR2 BLK B  
1631, D60, 38879, May 06 2023 12:35:31.668955, GROUND TOC1 DPO  
1632, T60, 3595118, May 06 2023 12:35:31.660884, PH DIR1 BLK B  
1633, D60, 38878, May 06 2023 12:35:31.658961, PHASE TOC2 DPO B  
1634, D60, 38877, May 06 2023 12:35:31.658961, PHASE TOC1 DPO B  
1635, D60, 38876, May 06 2023 12:35:31.658961, PH DIR2 BLK A  
1636, T60, 3595117, May 06 2023 12:35:31.650889, NEUTRAL TOC1 DPO  
1637, T60, 3595116, May 06 2023 12:35:31.650889, GROUND TOC1 DPO  
1638, T60, 3595115, May 06 2023 12:35:31.640893, PHASE TOC2 DPO B  
1639, T60, 3595114, May 06 2023 12:35:31.640893, PHASE TOC1 DPO B  
1640, T60, 3595113, May 06 2023 12:35:31.640893, PH DIR1 BLK A  
1641, D60, 38875, May 06 2023 12:35:31.638972, PHASE TOC2 PKP B  
1642, D60, 38874, May 06 2023 12:35:31.638972, PHASE TOC1 PKP B  
1643, T60, 3595112, May 06 2023 12:35:31.620906, OSCILLOGRAPHY TRIG'D  
1644, T60, 3595111, May 06 2023 12:35:31.620906, PHASE TOC2 PKP B  
1645, T60, 3595110, May 06 2023 12:35:31.620906, PHASE TOC1 PKP B

1646, D60, 38873, May 06 2023 12:35:31.618982, GROUND TOC1 PKP  
1647, C60, 480, May 06 2023 12:35:31.611319, Osc\_Trigger Off  
1648, C60, 479, May 06 2023 12:35:31.608821, OSCILLOGRAPHY TRIG'D  
1649, C60, 478, May 06 2023 12:35:31.608821, Osc\_Trigger On  
1650, D60, 38872, May 06 2023 12:35:31.606496, PH DIR2 BLK C  
1651, T60, 3595109, May 06 2023 12:35:31.600914, OSCILLOGRAPHY TRIG'D  
1652, T60, 3595108, May 06 2023 12:35:31.600914, NEUTRAL TOC1 PKP  
1653, T60, 3595107, May 06 2023 12:35:31.600914, GROUND TOC1 PKP  
1654, T60, 3595106, May 06 2023 12:35:31.588429, PH DIR1 BLK C  
1655, T60, 3595105, May 06 2023 12:35:31.585932, OSCILLOGRAPHY TRIG'D  
1656, C60, 477, May 03 2023 12:12:16.009451, CB1\_RESFLT Off  
1657, T60, 3595104, May 03 2023 12:12:16.008604, CB1\_RESFLT Off  
1658, T60, 3595103, May 03 2023 12:12:14.504985, T1\_IMGTRMIK Off  
1659, C60, 476, May 03 2023 12:12:14.418616, CB1\_RESFLT On  
1660, T60, 3595102, May 03 2023 12:12:14.010071, CB1\_RESFLT On  
1661, T60, 3595101, May 03 2023 12:12:13.647407, CB1\_RESFLT Off  
1662, T60, 3595100, May 03 2023 12:12:13.642405, CB1\_RESFLT On  
1663, T60, 3595099, May 03 2023 12:12:13.637402, CB1\_RESFLT Off  
1664, T60, 3595098, May 03 2023 12:12:13.634902, CB1\_RESFLT On  
1665, T60, 3595097, May 03 2023 12:12:13.627399, CB1\_RESFLT Off  
1666, T60, 3595096, May 03 2023 12:12:13.614895, CB1\_RESFLT On  
1667, T60, 3595095, May 03 2023 12:12:13.607393, CB1\_RESFLT Off  
1668, T60, 3595094, May 03 2023 12:12:13.594888, CB1\_RESFLT On  
1669, T60, 3595093, May 03 2023 12:12:13.587384, CB1\_RESFLT Off  
1670, T60, 3595092, May 03 2023 12:12:13.572378, CB1\_RESFLT On  
1671, T60, 3595091, May 03 2023 12:12:13.567377, CB1\_RESFLT Off  
1672, T60, 3595090, May 03 2023 12:12:13.549870, CB1\_RESFLT On  
1673, T60, 3595089, May 03 2023 12:12:13.547368, CB1\_RESFLT Off  
1674, T60, 3595088, May 03 2023 12:12:13.529862, CB1\_RESFLT On  
1675, T60, 3595087, May 03 2023 12:12:13.527360, CB1\_RESFLT Off  
1676, T60, 3595086, May 03 2023 12:12:13.509854, CB1\_RESFLT On  
1677, T60, 3595085, May 03 2023 12:12:13.507353, CB1\_RESFLT Off  
1678, T60, 3595084, May 03 2023 12:12:13.492347, CB1\_RESFLT On  
1679, T60, 3595083, May 03 2023 12:12:13.487342, CB1\_RESFLT Off  
1680, T60, 3595082, May 03 2023 12:12:13.469838, CB1\_RESFLT On  
1681, T60, 3595081, May 03 2023 12:12:13.467337, CB1\_RESFLT Off  
1682, T60, 3595080, May 03 2023 12:12:13.449829, CB1\_RESFLT On  
1683, T60, 3595079, May 03 2023 12:12:13.447329, CB1\_RESFLT Off  
1684, T60, 3595078, May 03 2023 12:12:13.429822, CB1\_RESFLT On  
1685, T60, 3595077, May 03 2023 12:12:13.427321, CB1\_RESFLT Off  
1686, T60, 3595076, May 03 2023 12:12:13.392308, CB1\_RESFLT On  
1687, T60, 3595075, May 03 2023 12:12:13.387306, CB1\_RESFLT Off  
1688, T60, 3595074, May 03 2023 12:12:13.369800, CB1\_RESFLT On  
1689, T60, 3595073, May 03 2023 12:12:13.367298, CB1\_RESFLT Off  
1690, T60, 3595072, May 03 2023 12:12:13.349792, CB1\_RESFLT On  
1691, T60, 3595071, May 03 2023 12:12:13.347291, CB1\_RESFLT Off  
1692, T60, 3595070, May 03 2023 12:12:13.329784, CB1\_RESFLT On  
1693, T60, 3595069, May 03 2023 12:12:13.327283, CB1\_RESFLT Off  
1694, T60, 3595068, May 03 2023 12:12:13.309778, CB1\_RESFLT On  
1695, T60, 3595067, May 03 2023 12:12:13.307276, CB1\_RESFLT Off



1696, T60, 3595066, May 03 2023 12:12:13.292273, CB1\_RESFLT On  
1697, T60, 3595065, May 03 2023 12:12:13.287269, CB1\_RESFLT Off  
1698, T60, 3595064, May 03 2023 12:12:13.272264, CB1\_RESFLT On  
1699, T60, 3595063, May 03 2023 12:12:13.267263, CB1\_RESFLT Off  
1700, T60, 3595062, May 03 2023 12:12:13.252257, CB1\_RESFLT On  
1701, T60, 3595061, May 03 2023 12:12:13.247255, CB1\_RESFLT Off  
1702, T60, 3595060, May 03 2023 12:12:13.232248, CB1\_RESFLT On  
1703, T60, 3595059, May 03 2023 12:12:13.227247, CB1\_RESFLT Off  
1704, T60, 3595058, May 03 2023 12:12:13.214743, CB1\_RESFLT On  
1705, T60, 3595057, May 03 2023 12:12:13.207240, CB1\_RESFLT Off  
1706, T60, 3595056, May 03 2023 12:12:13.194737, CB1\_RESFLT On  
1707, T60, 3595055, May 03 2023 12:12:13.187233, CB1\_RESFLT Off  
1708, T60, 3595054, May 03 2023 12:12:13.174732, CB1\_RESFLT On  
1709, T60, 3595053, May 03 2023 12:12:13.169728, Oscillatory GOOSE  
1710, C60, 475, May 03 2023 12:12:13.168068, CB1\_RESFLT Off  
1711, T60, 3595052, May 03 2023 12:12:13.167228, CB1\_RESFLT Off  
1712, C60, 474, May 03 2023 12:12:13.155564, CB1\_RESFLT On  
1713, T60, 3595051, May 03 2023 12:12:13.154725, CB1\_RESFLT On  
1714, C60, 473, May 03 2023 12:12:13.148062, CB1\_RESFLT Off  
1715, T60, 3595050, May 03 2023 12:12:13.147221, CB1\_RESFLT Off  
1716, C60, 472, May 03 2023 12:12:13.143060, CB1\_RESFLT On  
1717, T60, 3595049, May 03 2023 12:12:13.142218, CB1\_RESFLT On  
1718, C60, 471, May 03 2023 12:12:13.128055, CB1\_RESFLT Off  
1719, T60, 3595048, May 03 2023 12:12:13.127213, CB1\_RESFLT Off  
1720, C60, 470, May 03 2023 12:12:13.120551, CB1\_RESFLT On  
1721, T60, 3595047, May 03 2023 12:12:13.119710, CB1\_RESFLT On  
1722, T60, 3595046, May 03 2023 12:12:11.366648, T1\_IMGTRMIK On  
1723, T60, 3595045, May 03 2023 12:12:08.489330, NEUTRAL TOC1 DPO  
1724, T60, 3595044, May 03 2023 12:12:08.489330, GROUND TOC1 DPO  
1725, D60, 38871, May 03 2023 12:12:08.489324, GROUND TOC1 DPO  
1726, T60, 3595043, May 03 2023 12:12:08.469327, PHASE TOC2 DPO B  
1727, T60, 3595042, May 03 2023 12:12:08.469327, PHASE TOC1 DPO B  
1728, D60, 38870, May 03 2023 12:12:08.469324, PHASE TOC2 DPO B  
1729, D60, 38869, May 03 2023 12:12:08.469324, PHASE TOC1 DPO B  
1730, T60, 3595041, May 03 2023 12:12:08.399320, OSCILLOGRAPHY TRIG'D  
1731, T60, 3595040, May 03 2023 12:12:08.399320, PHASE TOC2 PKP B  
1732, T60, 3595039, May 03 2023 12:12:08.399320, PHASE TOC1 PKP B  
1733, D60, 38868, May 03 2023 12:12:08.399315, PHASE TOC2 PKP B  
1734, D60, 38867, May 03 2023 12:12:08.399315, PHASE TOC1 PKP B  
1735, T60, 3595038, May 03 2023 12:12:08.389320, OSCILLOGRAPHY TRIG'D  
1736, T60, 3595037, May 03 2023 12:12:08.389320, NEUTRAL TOC1 PKP  
1737, T60, 3595036, May 03 2023 12:12:08.389320, GROUND TOC1 PKP  
1738, D60, 38866, May 03 2023 12:12:08.389315, GROUND TOC1 PKP  
1739, D60, 38865, May 03 2023 12:12:08.389315, NTRL DIR OC1 FWD  
1740, T60, 3595035, May 03 2023 12:12:08.379322, PH DIR1 BLK C  
1741, D60, 38864, May 03 2023 12:12:08.379317, PH DIR2 BLK C  
1742, C60, 469, May 03 2023 12:12:08.375164, Osc\_Trigger Off  
1743, T60, 3595034, May 03 2023 12:12:08.374323, OSCILLOGRAPHY TRIG'D  
1744, T60, 3595033, May 03 2023 12:12:08.374323, PH DIR1 BLK A  
1745, D60, 38863, May 03 2023 12:12:08.374318, PH DIR2 BLK A

1746, C60, 468, May 03 2023 12:12:08.372665, OSCILLOGRAPHY TRIG'D  
1747, C60, 467, May 03 2023 12:12:08.372665, Osc\_Trigger On  
1748, C60, 464, Apr 27 2023 16:28:39.335077, OSCILLOGRAPHY TRIG'D  
1749, C60, 463, Apr 27 2023 16:28:35.150064, OSCILLOGRAPHY TRIG'D  
1750, C60, 460, Apr 27 2023 16:14:30.202860, OSCILLOGRAPHY TRIG'D  
1751, C60, 458, Apr 27 2023 16:13:38.067585, OSCILLOGRAPHY TRIG'D  
1752, C60, 466, Apr 27 2023 15:28:58.359029, OSCILLOGRAPHY TRIG'D  
1753, C60, 465, Apr 27 2023 15:28:47.381041, OSCILLOGRAPHY TRIG'D  
1754, C60, 462, Apr 27 2023 15:24:02.412574, OSCILLOGRAPHY TRIG'D  
1755, C60, 461, Apr 27 2023 15:14:51.448621, OSCILLOGRAPHY TRIG'D  
1756, C60, 459, Apr 27 2023 15:14:11.353054, OSCILLOGRAPHY TRIG'D  
1757, T60, 3595032, Apr 25 2023 20:45:20.246861, T1\_IMGTRMIK Off  
1758, T60, 3595031, Apr 25 2023 20:45:12.130315, T1\_IMGTRMIK On  
1759, C60, 457, Apr 24 2023 10:28:23.004779, Osc\_Trigger Off  
1760, C60, 456, Apr 24 2023 10:28:23.002277, OSCILLOGRAPHY TRIG'D  
1761, C60, 455, Apr 24 2023 10:28:23.002277, Osc\_Trigger On  
1762, T60, 3595030, Apr 24 2023 10:28:23.001541, OSCILLOGRAPHY TRIG'D  
1763, C60, 454, Apr 24 2023 10:28:22.862070, Osc\_Trigger Off  
1764, T60, 3595029, Apr 24 2023 10:28:22.861216, OSCILLOGRAPHY TRIG'D  
1765, C60, 453, Apr 24 2023 10:28:22.859567, OSCILLOGRAPHY TRIG'D  
1766, C60, 452, Apr 24 2023 10:28:22.859567, Osc\_Trigger On  
1767, C60, 451, Apr 23 2023 14:37:56.151095, Osc\_Trigger Off  
1768, T60, 3595028, Apr 23 2023 14:37:56.150142, OSCILLOGRAPHY TRIG'D  
1769, C60, 450, Apr 23 2023 14:37:56.148596, OSCILLOGRAPHY TRIG'D  
1770, C60, 449, Apr 23 2023 14:37:56.148596, Osc\_Trigger On  
1771, D60, 38862, Apr 19 2023 13:01:38.357455, GROUND TOC1 DPO  
1772, T60, 3595027, Apr 19 2023 13:01:38.332110, NEUTRAL TOC1 DPO  
1773, T60, 3595026, Apr 19 2023 13:01:38.332110, GROUND TOC1 DPO  
1774, D60, 38861, Apr 19 2023 13:01:38.267617, GROUND TOC1 PKP  
1775, D60, 38860, Apr 19 2023 13:01:38.260129, PH DIR2 BLK C  
1776, T60, 3595025, Apr 19 2023 13:01:38.242272, OSCILLOGRAPHY TRIG'D  
1777, T60, 3595024, Apr 19 2023 13:01:38.242272, NEUTRAL TOC1 PKP  
1778, T60, 3595023, Apr 19 2023 13:01:38.242272, GROUND TOC1 PKP  
1779, T60, 3595022, Apr 19 2023 13:01:38.234786, PH DIR1 BLK C  
1780, C60, 448, Apr 19 2023 13:01:38.227815, Osc\_Trigger Off  
1781, T60, 3595021, Apr 19 2023 13:01:38.227322, OSCILLOGRAPHY TRIG'D  
1782, C60, 447, Apr 19 2023 13:01:38.225322, OSCILLOGRAPHY TRIG'D  
1783, C60, 446, Apr 19 2023 13:01:38.225322, Osc\_Trigger On  
1784, T60, 3595020, Apr 16 2023 10:49:27.712655, PH DIR1 BLK B  
1785, T60, 3595019, Apr 16 2023 10:49:27.231408, PH DIR1 BLK B  
1786, D60, 38859, Apr 16 2023 10:49:27.018349, PH DIR2 BLK B  
1787, T60, 3595018, Apr 16 2023 10:49:26.933104, PH DIR1 BLK B  
1788, D60, 38858, Apr 16 2023 10:49:19.751059, PH DIR2 BLK B  
1789, D60, 38857, Apr 16 2023 10:49:19.500193, PH DIR2 BLK B  
1790, D60, 38856, Apr 16 2023 10:49:19.236776, PH DIR2 BLK B  
1791, T60, 3595017, Apr 16 2023 10:49:18.870487, PH DIR1 BLK B  
1792, T60, 3595016, Apr 16 2023 10:49:18.607059, PH DIR1 BLK B  
1793, T60, 3595015, Apr 16 2023 10:42:10.363072, NEUTRAL TOC1 DPO  
1794, T60, 3595014, Apr 16 2023 10:42:10.363072, GROUND TOC1 DPO  
1795, D60, 38855, Apr 16 2023 10:42:10.363065, GROUND TOC1 DPO

1796, T60, 3595013, Apr 16 2023 10:42:10.353026, OSCILLOGRAPHY TRIG'D  
1797, T60, 3595012, Apr 16 2023 10:42:10.353026, NEUTRAL TOC1 PKP  
1798, T60, 3595011, Apr 16 2023 10:42:10.353026, GROUND TOC1 PKP  
1799, D60, 38854, Apr 16 2023 10:42:10.353022, GROUND TOC1 PKP  
1800, T60, 3595010, Apr 16 2023 10:42:10.342974, OSCILLOGRAPHY TRIG'D  
1801, C60, 445, Apr 16 2023 10:42:10.341257, Osc\_Trigger Off  
1802, C60, 444, Apr 16 2023 10:42:10.338746, OSCILLOGRAPHY TRIG'D  
1803, C60, 443, Apr 16 2023 10:42:10.338746, Osc\_Trigger On  
1804, D60, 38853, Apr 16 2023 10:42:10.332926, PH DIR2 BLK C  
1805, T60, 3595009, Apr 16 2023 10:42:10.332926, PH DIR1 BLK C  
1806, C60, 442, Apr 12 2023 16:11:06.082427, Osc\_Trigger Off  
1807, T60, 3595008, Apr 12 2023 16:11:06.081596, OSCILLOGRAPHY TRIG'D  
1808, C60, 441, Apr 12 2023 16:11:06.079926, OSCILLOGRAPHY TRIG'D  
1809, C60, 440, Apr 12 2023 16:11:06.079926, Osc\_Trigger On  
1810, C60, 439, Apr 12 2023 16:11:05.649564, Osc\_Trigger Off  
1811, C60, 438, Apr 12 2023 16:11:05.647064, OSCILLOGRAPHY TRIG'D  
1812, C60, 437, Apr 12 2023 16:11:05.647064, Osc\_Trigger On  
1813, T60, 3595007, Apr 12 2023 16:11:05.646224, OSCILLOGRAPHY TRIG'D  
1814, C60, 436, Apr 10 2023 02:31:27.521142, Osc\_Trigger Off  
1815, T60, 3595006, Apr 10 2023 02:31:27.520299, OSCILLOGRAPHY TRIG'D  
1816, C60, 435, Apr 10 2023 02:31:27.518645, OSCILLOGRAPHY TRIG'D  
1817, C60, 434, Apr 10 2023 02:31:27.518645, Osc\_Trigger On  
1818, C60, 433, Apr 07 2023 13:42:45.588805, Osc\_Trigger Off  
1819, C60, 432, Apr 07 2023 13:42:45.586286, OSCILLOGRAPHY TRIG'D  
1820, C60, 431, Apr 07 2023 13:42:45.586286, Osc\_Trigger On  
1821, T60, 3595005, Apr 07 2023 13:42:45.585316, OSCILLOGRAPHY TRIG'D  
1822, C60, 430, Apr 07 2023 13:42:45.498717, Osc\_Trigger Off  
1823, T60, 3595004, Apr 07 2023 13:42:45.497873, OSCILLOGRAPHY TRIG'D  
1824, C60, 429, Apr 07 2023 13:42:45.496218, OSCILLOGRAPHY TRIG'D  
1825, C60, 428, Apr 07 2023 13:42:45.496218, Osc\_Trigger On  
1826, C60, 427, Apr 06 2023 10:50:50.213554, CB1\_RESFLT Off  
1827, T60, 3595003, Apr 06 2023 10:50:50.212724, CB1\_RESFLT Off  
1828, T60, 3595002, Apr 06 2023 10:50:49.393476, T1\_IMGTRMIK Off  
1829, T60, 3595001, Apr 06 2023 10:50:46.750698, CB1\_RESFLT On  
1830, T60, 3595000, Apr 06 2023 10:50:46.748205, CB1\_RESFLT Off  
1831, T60, 3594999, Apr 06 2023 10:50:46.730755, CB1\_RESFLT On  
1832, T60, 3594998, Apr 06 2023 10:50:46.728249, CB1\_RESFLT Off  
1833, T60, 3594997, Apr 06 2023 10:50:46.710759, CB1\_RESFLT On  
1834, T60, 3594996, Apr 06 2023 10:50:46.708264, CB1\_RESFLT Off  
1835, T60, 3594995, Apr 06 2023 10:50:46.690789, CB1\_RESFLT On  
1836, T60, 3594994, Apr 06 2023 10:50:46.688294, CB1\_RESFLT Off  
1837, T60, 3594993, Apr 06 2023 10:50:46.670819, CB1\_RESFLT On  
1838, T60, 3594992, Apr 06 2023 10:50:46.668324, CB1\_RESFLT Off  
1839, T60, 3594991, Apr 06 2023 10:50:46.653348, CB1\_RESFLT On  
1840, T60, 3594990, Apr 06 2023 10:50:46.648355, CB1\_RESFLT Off  
1841, T60, 3594989, Apr 06 2023 10:50:46.633376, CB1\_RESFLT On  
1842, T60, 3594988, Apr 06 2023 10:50:46.628384, CB1\_RESFLT Off  
1843, T60, 3594987, Apr 06 2023 10:50:46.610909, CB1\_RESFLT On  
1844, T60, 3594986, Apr 06 2023 10:50:46.608414, CB1\_RESFLT Off  
1845, T60, 3594985, Apr 06 2023 10:50:46.590941, CB1\_RESFLT On

1846, T60, 3594984, Apr 06 2023 10:50:46.588445, CB1\_RESFLT Off  
1847, T60, 3594983, Apr 06 2023 10:50:46.585950, Oscillatory GOOSE  
1848, C60, 426, Apr 06 2023 10:50:46.584296, CB1\_RESFLT On  
1849, T60, 3594982, Apr 06 2023 10:50:46.583452, CB1\_RESFLT On  
1850, C60, 425, Apr 06 2023 10:50:46.579303, CB1\_RESFLT Off  
1851, T60, 3594981, Apr 06 2023 10:50:46.578459, CB1\_RESFLT Off  
1852, C60, 424, Apr 06 2023 10:50:46.571812, CB1\_RESFLT On  
1853, T60, 3594980, Apr 06 2023 10:50:46.570971, CB1\_RESFLT On  
1854, C60, 423, Apr 06 2023 10:50:46.569317, CB1\_RESFLT Off  
1855, T60, 3594979, Apr 06 2023 10:50:46.568475, CB1\_RESFLT Off  
1856, C60, 422, Apr 06 2023 10:50:46.564324, CB1\_RESFLT On  
1857, T60, 3594978, Apr 06 2023 10:50:46.563482, CB1\_RESFLT On  
1858, C60, 421, Apr 06 2023 10:50:46.559331, CB1\_RESFLT Off  
1859, T60, 3594977, Apr 06 2023 10:50:46.558489, CB1\_RESFLT Off  
1860, C60, 420, Apr 06 2023 10:50:46.556834, CB1\_RESFLT On  
1861, T60, 3594976, Apr 06 2023 10:50:46.555993, CB1\_RESFLT On  
1862, C60, 419, Apr 06 2023 10:50:46.549344, CB1\_RESFLT Off  
1863, T60, 3594975, Apr 06 2023 10:50:46.548508, CB1\_RESFLT Off  
1864, C60, 418, Apr 06 2023 10:50:46.546849, CB1\_RESFLT On  
1865, T60, 3594974, Apr 06 2023 10:50:46.546007, CB1\_RESFLT On  
1866, C60, 417, Apr 06 2023 10:50:46.539360, CB1\_RESFLT Off  
1867, T60, 3594973, Apr 06 2023 10:50:46.538517, CB1\_RESFLT Off  
1868, C60, 416, Apr 06 2023 10:50:46.536864, CB1\_RESFLT On  
1869, T60, 3594972, Apr 06 2023 10:50:46.536022, CB1\_RESFLT On  
1870, C60, 415, Apr 06 2023 10:50:46.509406, CB1\_RESFLT Off  
1871, T60, 3594971, Apr 06 2023 10:50:46.508563, CB1\_RESFLT Off  
1872, C60, 414, Apr 06 2023 10:50:46.506909, CB1\_RESFLT On  
1873, T60, 3594970, Apr 06 2023 10:50:46.506066, CB1\_RESFLT On  
1874, C60, 413, Apr 06 2023 10:50:46.479451, CB1\_RESFLT Off  
1875, T60, 3594969, Apr 06 2023 10:50:46.478609, CB1\_RESFLT Off  
1876, C60, 412, Apr 06 2023 10:50:46.476978, CB1\_RESFLT On  
1877, T60, 3594968, Apr 06 2023 10:50:46.476108, CB1\_RESFLT On  
1878, T60, 3594967, Apr 06 2023 10:50:44.781698, T1\_IMGTRMIK On  
1879, D60, 38852, Apr 06 2023 10:50:43.325968, GROUND TOC1 DPO  
1880, T60, 3594966, Apr 06 2023 10:50:43.325967, NEUTRAL TOC1 DPO  
1881, T60, 3594965, Apr 06 2023 10:50:43.325967, GROUND TOC1 DPO  
1882, T60, 3594964, Apr 06 2023 10:50:43.315981, PHASE TOC2 DPO A  
1883, T60, 3594963, Apr 06 2023 10:50:43.315981, PHASE TOC1 DPO A  
1884, D60, 38851, Apr 06 2023 10:50:43.315976, PHASE TOC2 DPO A  
1885, D60, 38850, Apr 06 2023 10:50:43.315976, PHASE TOC1 DPO A  
1886, T60, 3594962, Apr 06 2023 10:50:43.256037, OSCILLOGRAPHY TRIG'D  
1887, T60, 3594961, Apr 06 2023 10:50:43.256037, PHASE TOC2 PKP A  
1888, T60, 3594960, Apr 06 2023 10:50:43.256037, PHASE TOC1 PKP A  
1889, D60, 38849, Apr 06 2023 10:50:43.256036, PHASE TOC2 PKP A  
1890, D60, 38848, Apr 06 2023 10:50:43.256036, PHASE TOC1 PKP A  
1891, D60, 38847, Apr 06 2023 10:50:43.246047, GROUND TOC1 PKP  
1892, T60, 3594959, Apr 06 2023 10:50:43.246047, OSCILLOGRAPHY TRIG'D  
1893, T60, 3594958, Apr 06 2023 10:50:43.246047, NEUTRAL TOC1 PKP  
1894, T60, 3594957, Apr 06 2023 10:50:43.246047, GROUND TOC1 PKP  
1895, D60, 38846, Apr 06 2023 10:50:43.241054, PH DIR2 BLK C

1896, D60, 38845, Apr 06 2023 10:50:43.241054, NTRL DIR OC1 FWD  
1897, T60, 3594956, Apr 06 2023 10:50:43.241055, PH DIR1 BLK C  
1898, T60, 3594955, Apr 06 2023 10:50:43.236064, PH DIR1 BLK B  
1899, D60, 38844, Apr 06 2023 10:50:43.236063, PH DIR2 BLK B  
1900, C60, 411, Apr 06 2023 10:50:43.231914, Osc\_Trigger Off  
1901, T60, 3594954, Apr 06 2023 10:50:43.231071, OSCILLOGRAPHY TRIG'D  
1902, C60, 410, Apr 06 2023 10:50:43.229419, OSCILLOGRAPHY TRIG'D  
1903, C60, 409, Apr 06 2023 10:50:43.229419, Osc\_Trigger On  
1904, T60, 3594953, Apr 06 2023 10:50:41.958116, NEUTRAL TOC1 DPO  
1905, T60, 3594952, Apr 06 2023 10:50:41.958116, GROUND TOC1 DPO  
1906, D60, 38843, Apr 06 2023 10:50:41.958106, GROUND TOC1 DPO  
1907, T60, 3594951, Apr 06 2023 10:50:41.955618, PH DIR1 BLK A  
1908, D60, 38842, Apr 06 2023 10:50:41.955612, PH DIR2 BLK A  
1909, T60, 3594950, Apr 06 2023 10:50:41.948124, PHASE TOC2 DPO A  
1910, T60, 3594949, Apr 06 2023 10:50:41.948124, PHASE TOC1 DPO A  
1911, D60, 38841, Apr 06 2023 10:50:41.948120, PHASE TOC2 DPO A  
1912, D60, 38840, Apr 06 2023 10:50:41.948120, PHASE TOC1 DPO A  
1913, T60, 3594948, Apr 06 2023 10:50:41.898173, OSCILLOGRAPHY TRIG'D  
1914, T60, 3594947, Apr 06 2023 10:50:41.898173, PHASE TOC2 PKP A  
1915, T60, 3594946, Apr 06 2023 10:50:41.898173, PHASE TOC1 PKP A  
1916, D60, 38839, Apr 06 2023 10:50:41.898168, PHASE TOC2 PKP A  
1917, D60, 38838, Apr 06 2023 10:50:41.898168, PHASE TOC1 PKP A  
1918, D60, 38837, Apr 06 2023 10:50:41.888194, GROUND TOC1 PKP  
1919, T60, 3594945, Apr 06 2023 10:50:41.888184, OSCILLOGRAPHY TRIG'D  
1920, T60, 3594944, Apr 06 2023 10:50:41.888184, NEUTRAL TOC1 PKP  
1921, T60, 3594943, Apr 06 2023 10:50:41.888184, GROUND TOC1 PKP  
1922, D60, 38836, Apr 06 2023 10:50:41.885702, NTRL DIR OC1 FWD  
1923, D60, 38835, Apr 06 2023 10:50:41.880701, PH DIR2 BLK B  
1924, T60, 3594942, Apr 06 2023 10:50:41.880694, PH DIR1 BLK B  
1925, C60, 408, Apr 06 2023 10:50:41.876547, Osc\_Trigger Off  
1926, T60, 3594941, Apr 06 2023 10:50:41.875703, PH DIR1 BLK C  
1927, D60, 38834, Apr 06 2023 10:50:41.875699, PH DIR2 BLK C  
1928, C60, 407, Apr 06 2023 10:50:41.874051, OSCILLOGRAPHY TRIG'D  
1929, C60, 406, Apr 06 2023 10:50:41.874051, Osc\_Trigger On  
1930, T60, 3594940, Apr 06 2023 10:50:41.873208, OSCILLOGRAPHY TRIG'D  
1931, C60, 405, Apr 05 2023 19:20:26.753495, Osc\_Trigger Off  
1932, C60, 404, Apr 05 2023 19:20:26.751000, OSCILLOGRAPHY TRIG'D  
1933, C60, 403, Apr 05 2023 19:20:26.751000, Osc\_Trigger On  
1934, T60, 3594939, Apr 05 2023 19:20:26.749665, OSCILLOGRAPHY TRIG'D  
1935, C60, 402, Apr 05 2023 19:20:26.491597, Osc\_Trigger Off  
1936, T60, 3594938, Apr 05 2023 19:20:26.490470, OSCILLOGRAPHY TRIG'D  
1937, C60, 401, Apr 05 2023 19:20:26.489102, OSCILLOGRAPHY TRIG'D  
1938, C60, 400, Apr 05 2023 19:20:26.489102, Osc\_Trigger On  
1939, C60, 399, Apr 05 2023 19:20:26.354458, Osc\_Trigger Off  
1940, T60, 3594937, Apr 05 2023 19:20:26.353610, OSCILLOGRAPHY TRIG'D  
1941, C60, 398, Apr 05 2023 19:20:26.351982, OSCILLOGRAPHY TRIG'D  
1942, C60, 397, Apr 05 2023 19:20:26.351982, Osc\_Trigger On  
1943, C60, 396, Apr 05 2023 09:02:53.018801, Osc\_Trigger Off  
1944, C60, 395, Apr 05 2023 09:02:53.016302, OSCILLOGRAPHY TRIG'D  
1945, C60, 394, Apr 05 2023 09:02:53.016302, Osc\_Trigger On



1946, T60, 3594936, Apr 05 2023 09:02:53.015407, OSCILLOGRAPHY TRIG'D  
1947, C60, 393, Apr 05 2023 09:02:52.933830, Osc\_Trigger Off  
1948, C60, 392, Apr 05 2023 09:02:52.931333, OSCILLOGRAPHY TRIG'D  
1949, C60, 391, Apr 05 2023 09:02:52.931333, Osc\_Trigger On  
1950, T60, 3594935, Apr 05 2023 09:02:52.930490, OSCILLOGRAPHY TRIG'D  
1951, C60, 390, Apr 04 2023 22:39:14.870223, Osc\_Trigger Off  
1952, C60, 389, Apr 04 2023 22:39:14.867720, OSCILLOGRAPHY TRIG'D  
1953, C60, 388, Apr 04 2023 22:39:14.867720, Osc\_Trigger On  
1954, T60, 3594934, Apr 04 2023 22:39:14.866882, OSCILLOGRAPHY TRIG'D  
1955, C60, 387, Apr 04 2023 22:01:26.919915, Osc\_Trigger Off  
1956, C60, 386, Apr 04 2023 22:01:26.917411, OSCILLOGRAPHY TRIG'D  
1957, C60, 385, Apr 04 2023 22:01:26.917411, Osc\_Trigger On  
1958, T60, 3594933, Apr 04 2023 22:01:26.916564, OSCILLOGRAPHY TRIG'D  
1959, T60, 3594932, Apr 04 2023 21:27:16.411107, PH DIR1 BLK A  
1960, D60, 38833, Apr 04 2023 21:27:16.342999, PH DIR2 BLK A  
1961, T60, 3594931, Apr 04 2023 21:27:16.332916, PH DIR1 BLK A  
1962, D60, 38832, Apr 04 2023 21:27:16.300117, PH DIR2 BLK A  
1963, D60, 38831, Apr 04 2023 21:27:16.242094, PH DIR2 BLK A  
1964, T60, 3594930, Apr 04 2023 21:27:16.239576, PH DIR1 BLK A  
1965, T60, 3594929, Apr 04 2023 21:27:16.186593, PH DIR1 BLK A  
1966, T60, 3594928, Apr 04 2023 21:27:16.118476, PH DIR1 BLK A  
1967, D60, 38830, Apr 04 2023 21:27:15.164208, PH DIR2 BLK C  
1968, C60, 384, Apr 04 2023 21:27:03.345867, CB1\_RESFLT Off  
1969, C60, 383, Apr 04 2023 21:27:02.339352, CB1\_RESFLT On  
1970, D60, 38829, Apr 04 2023 21:27:01.975494, PH DIR2 BLK C  
1971, D60, 38828, Apr 04 2023 21:27:01.689086, PH DIR2 BLK B  
1972, D60, 38827, Apr 04 2023 21:27:01.632319, PH DIR2 BLK A  
1973, C60, 382, Apr 04 2023 21:27:01.204119, CB1\_RESFLT Off  
1974, C60, 381, Apr 04 2023 21:27:01.196380, CB1\_RESFLT On  
1975, C60, 380, Apr 04 2023 21:27:01.193801, CB1\_RESFLT Off  
1976, C60, 379, Apr 04 2023 21:27:01.188643, CB1\_RESFLT On  
1977, C60, 378, Apr 04 2023 21:27:01.160277, CB1\_RESFLT Off  
1978, C60, 377, Apr 04 2023 21:27:01.157698, CB1\_RESFLT On  
1979, C60, 376, Apr 04 2023 21:26:57.278688, Osc\_Trigger Off  
1980, C60, 375, Apr 04 2023 21:26:57.276173, OSCILLOGRAPHY TRIG'D  
1981, C60, 374, Apr 04 2023 21:26:57.276173, Osc\_Trigger On  
1982, D60, 38826, Apr 04 2023 21:26:57.155293, PH DIR2 BLK B  
1983, D60, 38825, Apr 04 2023 21:26:57.147754, PH DIR2 BLK A  
1984, C60, 373, Apr 04 2023 21:26:57.112763, Osc\_Trigger Off  
1985, C60, 372, Apr 04 2023 21:26:57.110249, OSCILLOGRAPHY TRIG'D  
1986, C60, 371, Apr 04 2023 21:26:57.110249, Osc\_Trigger On  
1987, C60, 370, Apr 04 2023 21:26:56.686295, Osc\_Trigger Off  
1988, C60, 369, Apr 04 2023 21:26:56.683789, OSCILLOGRAPHY TRIG'D  
1989, C60, 368, Apr 04 2023 21:26:56.683789, Osc\_Trigger On  
1990, D60, 38824, Apr 04 2023 21:26:56.505162, PH DIR2 BLK A  
1991, C60, 367, Apr 04 2023 21:26:56.465939, Osc\_Trigger Off  
1992, C60, 366, Apr 04 2023 21:26:56.463436, OSCILLOGRAPHY TRIG'D  
1993, C60, 365, Apr 04 2023 21:26:56.463436, Osc\_Trigger On  
1994, C60, 364, Apr 02 2023 07:51:50.123491, Osc\_Trigger Off  
1995, C60, 363, Apr 02 2023 07:51:50.120995, OSCILLOGRAPHY TRIG'D

1996, C60, 362, Apr 02 2023 07:51:50.120995, Osc\_Trigger On  
1997, D60, 38823, Apr 02 2023 07:51:50.010265, PH DIR2 BLK A  
1998, D60, 38822, Apr 02 2023 07:51:50.005272, PH DIR2 BLK C  
1999, D60, 38821, Apr 02 2023 07:51:50.000277, PH DIR2 BLK B  
2000, C60, 361, Apr 02 2023 07:51:49.948721, Osc\_Trigger Off  
2001, C60, 360, Apr 02 2023 07:51:49.946225, OSCILLOGRAPHY TRIG'D  
2002, C60, 359, Apr 02 2023 07:51:49.946225, Osc\_Trigger On  
2003, D60, 38820, Apr 02 2023 04:12:04.196550, PH DIR2 BLK A  
2004, D60, 38819, Apr 02 2023 04:12:04.189021, PH DIR2 BLK C  
2005, C60, 358, Apr 02 2023 04:12:03.655959, Osc\_Trigger Off  
2006, C60, 357, Apr 02 2023 04:12:03.653452, OSCILLOGRAPHY TRIG'D  
2007, C60, 356, Apr 02 2023 04:12:03.653452, Osc\_Trigger On  
2008, D60, 38818, Apr 02 2023 04:12:03.532208, PH DIR2 BLK B  
2009, D60, 38817, Apr 02 2023 04:12:03.514671, PH DIR2 BLK A  
2010, D60, 38816, Apr 02 2023 04:12:03.484605, PH DIR2 BLK A  
2011, C60, 355, Apr 02 2023 04:12:03.475437, Osc\_Trigger Off  
2012, C60, 354, Apr 02 2023 04:12:03.472930, OSCILLOGRAPHY TRIG'D  
2013, C60, 353, Apr 02 2023 04:12:03.472930, Osc\_Trigger On  
2014, C60, 352, Mar 31 2023 23:35:40.188451, Osc\_Trigger Off  
2015, C60, 351, Mar 31 2023 23:35:40.185958, OSCILLOGRAPHY TRIG'D  
2016, C60, 350, Mar 31 2023 23:35:40.185958, Osc\_Trigger On  
2017, C60, 349, Mar 25 2023 21:19:47.277181, Osc\_Trigger Off  
2018, C60, 348, Mar 25 2023 21:19:47.274679, OSCILLOGRAPHY TRIG'D  
2019, C60, 347, Mar 25 2023 21:19:47.274679, Osc\_Trigger On  
2020, D60, 38815, Mar 23 2023 07:03:25.233648, GROUND TOC1 DPO  
2021, C60, 346, Mar 23 2023 07:03:25.232196, Osc\_Trigger Off  
2022, C60, 345, Mar 23 2023 07:03:25.229694, OSCILLOGRAPHY TRIG'D  
2023, C60, 344, Mar 23 2023 07:03:25.229694, Osc\_Trigger On  
2024, D60, 38814, Mar 23 2023 07:03:24.627657, PH DIR2 BLK A  
2025, D60, 38813, Mar 23 2023 07:03:24.602615, GROUND TOC1 PKP  
2026, C60, 343, Mar 23 2023 07:03:24.583449, Osc\_Trigger Off  
2027, C60, 342, Mar 23 2023 07:03:24.580943, OSCILLOGRAPHY TRIG'D  
2028, C60, 341, Mar 23 2023 07:03:24.580943, Osc\_Trigger On  
2029, D60, 38812, Mar 23 2023 00:27:35.823804, PH DIR2 BLK B  
2030, C60, 340, Mar 23 2023 00:27:35.760795, Osc\_Trigger Off  
2031, C60, 339, Mar 23 2023 00:27:35.758296, OSCILLOGRAPHY TRIG'D  
2032, C60, 338, Mar 23 2023 00:27:35.758296, Osc\_Trigger On  
2033, C60, 337, Mar 22 2023 14:40:37.820670, Osc\_Trigger Off  
2034, C60, 336, Mar 22 2023 14:40:37.818167, OSCILLOGRAPHY TRIG'D  
2035, C60, 335, Mar 22 2023 14:40:37.818167, Osc\_Trigger On  
2036, C60, 334, Mar 18 2023 16:48:51.037329, Osc\_Trigger Off  
2037, C60, 333, Mar 18 2023 16:48:51.034831, OSCILLOGRAPHY TRIG'D  
2038, C60, 332, Mar 18 2023 16:48:51.034831, Osc\_Trigger On  
2039, D60, 38782, Mar 18 2023 03:29:29.853886, PH DIR2 BLK B  
2040, D60, 38781, Mar 18 2023 03:29:29.783935, PH DIR2 BLK B  
2041, D60, 38780, Mar 18 2023 03:29:29.756453, PH DIR2 BLK B  
2042, D60, 38779, Mar 18 2023 03:29:29.731471, PH DIR2 BLK B  
2043, D60, 38778, Mar 18 2023 03:29:29.703990, PH DIR2 BLK B  
2044, D60, 38777, Mar 18 2023 03:29:29.641534, PH DIR2 BLK B  
2045, D60, 38776, Mar 18 2023 03:29:29.289266, PH DIR2 BLK B

2046, D60, 38775, Mar 18 2023 03:29:29.164345, PH DIR2 BLK B  
2047, D60, 38774, Mar 18 2023 03:29:29.139377, PH DIR2 BLK B  
2048, D60, 38773, Mar 18 2023 03:29:28.692119, PH DIR2 BLK B  
2049, D60, 38772, Mar 18 2023 03:29:28.662136, PH DIR2 BLK B  
2050, D60, 38771, Mar 18 2023 03:29:28.622160, PH DIR2 BLK B  
2051, D60, 38770, Mar 18 2023 03:29:28.599674, PH DIR2 BLK B  
2052, D60, 38769, Mar 18 2023 03:29:28.564709, PH DIR2 BLK B  
2053, D60, 38768, Mar 18 2023 03:29:28.544711, PH DIR2 BLK B  
2054, D60, 38767, Mar 18 2023 03:29:27.975000, PH DIR2 BLK B  
2055, D60, 38766, Mar 18 2023 03:24:51.967295, PH DIR2 BLK B  
2056, D60, 38765, Mar 18 2023 03:24:51.939811, PH DIR2 BLK B  
2057, D60, 38764, Mar 18 2023 03:24:51.907330, PH DIR2 BLK B  
2058, D60, 38763, Mar 18 2023 03:24:51.879852, PH DIR2 BLK B  
2059, D60, 38762, Mar 18 2023 03:24:51.862357, PH DIR2 BLK B  
2060, D60, 38761, Mar 18 2023 03:24:51.837373, PH DIR2 BLK B  
2061, D60, 38760, Mar 18 2023 03:24:51.809892, PH DIR2 BLK B  
2062, D60, 38759, Mar 18 2023 03:24:51.787419, PH DIR2 BLK B  
2063, D60, 38758, Mar 18 2023 03:24:51.757425, PH DIR2 BLK B  
2064, D60, 38757, Mar 18 2023 03:24:51.165310, PH DIR2 BLK B  
2065, D60, 38756, Mar 18 2023 03:24:51.137830, PH DIR2 BLK B  
2066, D60, 38755, Mar 18 2023 03:24:51.110349, PH DIR2 BLK B  
2067, D60, 38754, Mar 18 2023 03:24:51.060384, PH DIR2 BLK B  
2068, D60, 38753, Mar 18 2023 03:24:50.768055, PH DIR2 BLK B  
2069, D60, 38752, Mar 18 2023 03:24:50.613155, PH DIR2 BLK B  
2070, D60, 38751, Mar 18 2023 03:24:50.588171, PH DIR2 BLK B  
2071, D60, 38750, Mar 18 2023 03:24:50.555693, PH DIR2 BLK B  
2072, D60, 38749, Mar 18 2023 03:24:50.498232, PH DIR2 BLK B  
2073, D60, 38748, Mar 18 2023 03:24:49.998541, PH DIR2 BLK B  
2074, D60, 38747, Mar 18 2023 03:24:49.978555, PH DIR2 BLK B  
2075, D60, 38746, Mar 18 2023 03:24:49.941076, PH DIR2 BLK B  
2076, D60, 38745, Mar 18 2023 03:24:49.911097, PH DIR2 BLK B  
2077, D60, 38744, Mar 18 2023 03:24:49.571318, PH DIR2 BLK B  
2078, D60, 38743, Mar 18 2023 03:24:49.381434, PH DIR2 BLK B  
2079, D60, 38742, Mar 18 2023 03:24:49.323972, PH DIR2 BLK B  
2080, D60, 38741, Mar 18 2023 03:24:49.301489, PH DIR2 BLK B  
2081, D60, 38740, Mar 18 2023 03:24:49.231535, PH DIR2 BLK B  
2082, D60, 38739, Mar 18 2023 03:24:49.201556, PH DIR2 BLK B  
2083, D60, 38738, Mar 18 2023 03:24:49.179072, PH DIR2 BLK B  
2084, D60, 38737, Mar 18 2023 03:24:48.709370, PH DIR2 BLK B  
2085, D60, 38736, Mar 18 2023 03:24:48.681891, PH DIR2 BLK B  
2086, D60, 38735, Mar 18 2023 03:24:48.189735, PH DIR2 BLK B  
2087, D60, 38734, Mar 18 2023 03:24:47.670101, PH DIR2 BLK B  
2088, D60, 38733, Mar 18 2023 03:24:47.637626, PH DIR2 BLK B  
2089, D60, 38732, Mar 18 2023 03:24:47.612643, PH DIR2 BLK B  
2090, D60, 38731, Mar 18 2023 03:24:47.023102, PH DIR2 BLK B  
2091, D60, 38730, Mar 18 2023 03:24:46.928154, PH DIR2 BLK B  
2092, D60, 38729, Mar 18 2023 03:24:46.898178, PH DIR2 BLK B  
2093, D60, 38728, Mar 18 2023 03:24:46.773278, PH DIR2 BLK B  
2094, D60, 38727, Mar 18 2023 03:24:46.153776, PH DIR2 BLK B  
2095, D60, 38811, Mar 18 2023 02:29:32.841650, PH DIR2 BLK B

2096, D60, 38810, Mar 18 2023 02:29:32.819169, PH DIR2 BLK B  
2097, D60, 38809, Mar 18 2023 02:29:32.691784, PH DIR2 BLK B  
2098, D60, 38808, Mar 18 2023 02:29:32.669306, PH DIR2 BLK B  
2099, D60, 38807, Mar 18 2023 02:29:32.641828, PH DIR2 BLK B  
2100, D60, 38806, Mar 18 2023 02:29:32.269664, PH DIR2 BLK B  
2101, D60, 38805, Mar 18 2023 02:29:32.242187, PH DIR2 BLK B  
2102, D60, 38804, Mar 18 2023 02:29:32.212212, PH DIR2 BLK B  
2103, D60, 38803, Mar 18 2023 02:29:32.189734, PH DIR2 BLK B  
2104, D60, 38802, Mar 18 2023 02:29:31.772594, PH DIR2 BLK B  
2105, D60, 38801, Mar 18 2023 02:29:31.500322, PH DIR2 BLK B  
2106, D60, 38800, Mar 18 2023 02:29:31.475344, PH DIR2 BLK B  
2107, D60, 38799, Mar 18 2023 02:29:31.410397, PH DIR2 BLK B  
2108, D60, 38798, Mar 18 2023 02:29:31.380423, PH DIR2 BLK B  
2109, D60, 38797, Mar 18 2023 02:29:31.352945, PH DIR2 BLK B  
2110, D60, 38796, Mar 18 2023 02:29:31.325469, PH DIR2 BLK B  
2111, D60, 38795, Mar 18 2023 02:29:30.933280, PH DIR2 BLK B  
2112, D60, 38794, Mar 18 2023 02:29:30.900807, PH DIR2 BLK B  
2113, D60, 38793, Mar 18 2023 02:29:30.873329, PH DIR2 BLK B  
2114, D60, 38792, Mar 18 2023 02:29:30.853342, PH DIR2 BLK B  
2115, D60, 38791, Mar 18 2023 02:29:30.825866, PH DIR2 BLK B  
2116, D60, 38790, Mar 18 2023 02:29:30.461125, PH DIR2 BLK B  
2117, D60, 38789, Mar 18 2023 02:29:30.428650, PH DIR2 BLK B  
2118, D60, 38788, Mar 18 2023 02:29:30.393675, PH DIR2 BLK B  
2119, D60, 38787, Mar 18 2023 02:29:30.371190, PH DIR2 BLK B  
2120, D60, 38786, Mar 18 2023 02:29:30.333718, PH DIR2 BLK B  
2121, D60, 38785, Mar 18 2023 02:29:30.308735, PH DIR2 BLK B  
2122, D60, 38784, Mar 18 2023 02:29:30.163843, PH DIR2 BLK B  
2123, D60, 38783, Mar 18 2023 02:29:30.013945, PH DIR2 BLK B  
2124, D60, 38726, Mar 17 2023 22:25:49.804099, PH DIR2 BLK B  
2125, C60, 331, Mar 16 2023 19:29:58.880523, CB1\_RESFLT Off  
2126, C60, 330, Mar 16 2023 19:29:50.994646, CB1\_RESFLT On  
2127, C60, 329, Mar 16 2023 19:05:51.628714, CC\_RESTM1 On  
2128, C60, 328, Mar 16 2023 16:56:07.607664, OSCILLOGRAPHY TRIG'D  
2129, C60, 326, Mar 16 2023 16:51:51.547041, OSCILLOGRAPHY TRIG'D  
2130, C60, 325, Mar 16 2023 16:51:01.984486, OSCILLOGRAPHY TRIG'D  
2131, C60, 324, Mar 16 2023 16:49:28.199924, OSCILLOGRAPHY TRIG'D  
2132, C60, 322, Mar 16 2023 16:37:58.955819, OSCILLOGRAPHY TRIG'D  
2133, C60, 321, Mar 16 2023 16:24:43.106958, OSCILLOGRAPHY TRIG'D  
2134, C60, 327, Mar 16 2023 15:53:38.627505, OSCILLOGRAPHY TRIG'D  
2135, C60, 323, Mar 16 2023 15:38:39.451797, OSCILLOGRAPHY TRIG'D  
2136, C60, 320, Mar 12 2023 10:55:56.525289, Osc\_Trigger Off  
2137, C60, 319, Mar 12 2023 10:55:56.522792, OSCILLOGRAPHY TRIG'D  
2138, C60, 318, Mar 12 2023 10:55:56.522792, Osc\_Trigger On  
2139, C60, 317, Mar 12 2023 08:45:07.119099, Osc\_Trigger Off  
2140, C60, 316, Mar 12 2023 08:45:07.116600, OSCILLOGRAPHY TRIG'D  
2141, C60, 315, Mar 12 2023 08:45:07.116600, Osc\_Trigger On  
2142, D60, 38725, Mar 12 2023 08:45:00.384809, PH DIR2 BLK C  
2143, D60, 38724, Mar 12 2023 08:45:00.094982, PH DIR2 BLK A  
2144, D60, 38723, Mar 12 2023 08:44:58.860527, PH DIR2 BLK B  
2145, D60, 38722, Mar 12 2023 08:44:56.750980, PH DIR2 BLK B

2146, D60, 38721, Mar 12 2023 08:44:56.748485, GROUND TOC1 DPO  
2147, D60, 38720, Mar 12 2023 08:44:56.745982, PH DIR2 BLK A  
2148, C60, 314, Mar 12 2023 08:44:56.726606, Osc\_Trigger Off  
2149, C60, 313, Mar 12 2023 08:44:56.724107, OSCILLOGRAPHY TRIG'D  
2150, C60, 312, Mar 12 2023 08:44:56.724107, Osc\_Trigger On  
2151, D60, 38719, Mar 12 2023 08:44:56.708473, PH DIR2 BLK C  
2152, D60, 38718, Mar 12 2023 08:44:56.548384, PHASE TOC2 DPO B  
2153, D60, 38717, Mar 12 2023 08:44:56.548384, PHASE TOC1 DPO B  
2154, D60, 38716, Mar 12 2023 08:44:56.525869, PH DIR2 BLK C  
2155, D60, 38715, Mar 12 2023 08:44:56.518366, PHASE TOC2 PKP B  
2156, D60, 38714, Mar 12 2023 08:44:56.518366, PHASE TOC1 PKP B  
2157, D60, 38713, Mar 12 2023 08:44:56.508361, GROUND TOC1 PKP  
2158, C60, 311, Mar 12 2023 08:44:56.486704, Osc\_Trigger Off  
2159, C60, 310, Mar 12 2023 08:44:56.484203, OSCILLOGRAPHY TRIG'D  
2160, C60, 309, Mar 12 2023 08:44:56.484203, Osc\_Trigger On  
2161, D60, 38712, Mar 11 2023 03:17:24.657037, GROUND TOC1 DPO  
2162, D60, 38711, Mar 11 2023 03:17:24.654537, PH DIR2 BLK A  
2163, D60, 38710, Mar 11 2023 03:17:24.649539, PH DIR2 BLK B  
2164, D60, 38709, Mar 11 2023 03:17:24.577044, GROUND TOC1 PKP  
2165, D60, 38708, Mar 11 2023 03:17:24.567045, PH DIR2 BLK C  
2166, C60, 308, Mar 11 2023 03:17:24.562897, Osc\_Trigger Off  
2167, C60, 307, Mar 11 2023 03:17:24.560398, OSCILLOGRAPHY TRIG'D  
2168, C60, 306, Mar 11 2023 03:17:24.560398, Osc\_Trigger On  
2169, D60, 38707, Mar 11 2023 02:40:06.203069, GROUND TOC1 DPO  
2170, D60, 38706, Mar 11 2023 02:40:06.203069, PH DIR2 BLK B  
2171, D60, 38705, Mar 11 2023 02:40:06.195576, PH DIR2 BLK A  
2172, D60, 38704, Mar 11 2023 02:40:06.130701, PH DIR2 BLK C  
2173, D60, 38703, Mar 11 2023 02:40:06.105750, PH DIR2 BLK B  
2174, D60, 38702, Mar 11 2023 02:40:06.053356, GROUND TOC1 PKP  
2175, C60, 305, Mar 11 2023 02:40:06.039250, Osc\_Trigger Off  
2176, D60, 38701, Mar 11 2023 02:40:06.038388, PH DIR2 BLK B  
2177, C60, 304, Mar 11 2023 02:40:06.036753, OSCILLOGRAPHY TRIG'D  
2178, C60, 303, Mar 11 2023 02:40:06.036753, Osc\_Trigger On  
2179, C60, 302, Mar 08 2023 20:54:05.612910, Osc\_Trigger Off  
2180, C60, 301, Mar 08 2023 20:54:05.610414, OSCILLOGRAPHY TRIG'D  
2181, C60, 300, Mar 08 2023 20:54:05.610414, Osc\_Trigger On  
2182, C60, 299, Mar 06 2023 21:56:47.758001, Osc\_Trigger Off  
2183, D60, 38700, Mar 06 2023 21:56:47.757154, PH DIR2 BLK C  
2184, C60, 298, Mar 06 2023 21:56:47.755510, OSCILLOGRAPHY TRIG'D  
2185, C60, 297, Mar 06 2023 21:56:47.755510, Osc\_Trigger On  
2186, D60, 38699, Mar 06 2023 21:56:47.754663, PH DIR2 BLK A  
2187, C60, 296, Mar 06 2023 21:49:27.868060, Osc\_Trigger Off  
2188, C60, 295, Mar 06 2023 21:49:27.865565, OSCILLOGRAPHY TRIG'D  
2189, C60, 294, Mar 06 2023 21:49:27.865565, Osc\_Trigger On  
2190, C60, 293, Mar 06 2023 21:31:14.640228, Osc\_Trigger Off  
2191, D60, 38698, Mar 06 2023 21:31:14.639378, PH DIR2 BLK A  
2192, C60, 292, Mar 06 2023 21:31:14.637726, OSCILLOGRAPHY TRIG'D  
2193, C60, 291, Mar 06 2023 21:31:14.637726, Osc\_Trigger On  
2194, D60, 38697, Mar 06 2023 21:31:14.636876, PH DIR2 BLK B  
2195, C60, 290, Mar 06 2023 21:08:39.975363, Osc\_Trigger Off



2196, D60, 38696, Mar 06 2023 21:08:39.974516, PH DIR2 BLK A  
2197, C60, 289, Mar 06 2023 21:08:39.972869, OSCILLOGRAPHY TRIG'D  
2198, C60, 288, Mar 06 2023 21:08:39.972869, Osc\_Trigger On  
2199, D60, 38695, Mar 06 2023 21:08:39.972021, PH DIR2 BLK B  
2200, C60, 287, Feb 19 2023 16:54:13.395583, Osc\_Trigger Off  
2201, C60, 286, Feb 19 2023 16:54:13.393084, OSCILLOGRAPHY TRIG'D  
2202, C60, 285, Feb 19 2023 16:54:13.393084, Osc\_Trigger On  
2203, C60, 284, Feb 18 2023 20:53:36.226752, Osc\_Trigger Off  
2204, C60, 283, Feb 18 2023 20:53:36.224256, OSCILLOGRAPHY TRIG'D  
2205, C60, 282, Feb 18 2023 20:53:36.224256, Osc\_Trigger On  
2206, C60, 281, Feb 18 2023 20:53:36.159374, Osc\_Trigger Off  
2207, C60, 280, Feb 18 2023 20:53:36.156881, OSCILLOGRAPHY TRIG'D  
2208, C60, 279, Feb 18 2023 20:53:36.156881, Osc\_Trigger On  
2209, C60, 278, Feb 18 2023 19:33:07.519853, Osc\_Trigger Off  
2210, C60, 277, Feb 18 2023 19:33:07.517362, OSCILLOGRAPHY TRIG'D  
2211, C60, 276, Feb 18 2023 19:33:07.517362, Osc\_Trigger On  
2212, C60, 275, Feb 17 2023 21:02:01.178375, Osc\_Trigger Off  
2213, C60, 274, Feb 17 2023 21:02:01.175879, OSCILLOGRAPHY TRIG'D  
2214, C60, 273, Feb 17 2023 21:02:01.175879, Osc\_Trigger On  
2215, D60, 38694, Feb 17 2023 21:02:01.080099, PH DIR2 BLK B  
2216, D60, 38693, Feb 17 2023 21:02:01.075112, PH DIR2 BLK A  
2217, D60, 38692, Feb 17 2023 21:02:01.065139, PH DIR2 BLK C  
2218, C60, 272, Feb 17 2023 21:02:01.018613, Osc\_Trigger Off  
2219, C60, 271, Feb 17 2023 21:02:01.016119, OSCILLOGRAPHY TRIG'D  
2220, C60, 270, Feb 17 2023 21:02:01.016119, Osc\_Trigger On  
2221, C60, 269, Feb 12 2023 13:42:20.298850, Osc\_Trigger Off  
2222, C60, 268, Feb 12 2023 13:42:20.296357, OSCILLOGRAPHY TRIG'D  
2223, C60, 267, Feb 12 2023 13:42:20.296357, Osc\_Trigger On  
2224, C60, 266, Feb 12 2023 13:42:20.239024, Osc\_Trigger Off  
2225, C60, 265, Feb 12 2023 13:42:20.236534, OSCILLOGRAPHY TRIG'D  
2226, C60, 264, Feb 12 2023 13:42:20.236534, Osc\_Trigger On  
2227, C60, 263, Feb 10 2023 00:24:38.489873, Osc\_Trigger Off  
2228, C60, 262, Feb 10 2023 00:24:38.487380, OSCILLOGRAPHY TRIG'D  
2229, C60, 261, Feb 10 2023 00:24:38.487380, Osc\_Trigger On  
2230, C60, 260, Feb 10 2023 00:24:38.207556, Osc\_Trigger Off  
2231, C60, 259, Feb 10 2023 00:24:38.205055, OSCILLOGRAPHY TRIG'D  
2232, C60, 258, Feb 10 2023 00:24:38.205055, Osc\_Trigger On  
2233, C60, 257, Feb 09 2023 21:29:02.389767, Osc\_Trigger Off  
2234, C60, 256, Feb 09 2023 21:29:02.387254, OSCILLOGRAPHY TRIG'D  
2235, C60, 255, Feb 09 2023 21:29:02.387254, Osc\_Trigger On  
2236, C60, 254, Feb 07 2023 20:17:43.537818, Osc\_Trigger Off  
2237, C60, 253, Feb 07 2023 20:17:43.535317, OSCILLOGRAPHY TRIG'D  
2238, C60, 252, Feb 07 2023 20:17:43.535317, Osc\_Trigger On  
2239, C60, 251, Feb 07 2023 19:50:15.903074, Osc\_Trigger Off  
2240, C60, 250, Feb 07 2023 19:50:15.900577, OSCILLOGRAPHY TRIG'D  
2241, C60, 249, Feb 07 2023 19:50:15.900577, Osc\_Trigger On  
2242, C60, 248, Feb 07 2023 19:50:15.738392, Osc\_Trigger Off  
2243, C60, 247, Feb 07 2023 19:50:15.735896, OSCILLOGRAPHY TRIG'D  
2244, C60, 246, Feb 07 2023 19:50:15.735896, Osc\_Trigger On  
2245, D60, 38691, Feb 07 2023 09:50:54.300372, GROUND TOC1 DPO

2246, D60, 38690, Feb 07 2023 09:50:54.252980, PH DIR2 BLK B  
2247, D60, 38689, Feb 07 2023 09:50:54.240515, GROUND TOC1 PKP  
2248, D60, 38688, Feb 07 2023 09:50:54.230535, PH DIR2 BLK A  
2249, C60, 245, Feb 07 2023 09:50:54.223894, Osc\_Trigger Off  
2250, C60, 244, Feb 07 2023 09:50:54.221398, OSCILLOGRAPHY TRIG'D  
2251, C60, 243, Feb 07 2023 09:50:54.221398, Osc\_Trigger On  
2252, C60, 242, Jan 20 2023 18:08:40.470214, Osc\_Trigger Off  
2253, C60, 241, Jan 20 2023 18:08:40.467709, OSCILLOGRAPHY TRIG'D  
2254, C60, 240, Jan 20 2023 18:08:40.467709, Osc\_Trigger On  
2255, C60, 239, Jan 20 2023 18:08:40.044506, Osc\_Trigger Off  
2256, C60, 238, Jan 20 2023 18:08:40.042007, OSCILLOGRAPHY TRIG'D  
2257, C60, 237, Jan 20 2023 18:08:40.042007, Osc\_Trigger On  
2258, C60, 236, Jan 19 2023 19:50:23.403556, Osc\_Trigger Off  
2259, C60, 235, Jan 19 2023 19:50:23.401055, OSCILLOGRAPHY TRIG'D  
2260, C60, 234, Jan 19 2023 19:50:23.401055, Osc\_Trigger On  
2261, C60, 233, Jan 17 2023 08:38:21.034739, Osc\_Trigger Off  
2262, C60, 232, Jan 17 2023 08:38:21.032236, OSCILLOGRAPHY TRIG'D  
2263, C60, 231, Jan 17 2023 08:38:21.032236, Osc\_Trigger On  
2264, D60, 38687, Jan 17 2023 08:38:20.908677, PH DIR2 BLK B  
2265, C60, 230, Jan 17 2023 08:38:20.849416, Osc\_Trigger Off  
2266, C60, 229, Jan 17 2023 08:38:20.846910, OSCILLOGRAPHY TRIG'D  
2267, C60, 228, Jan 17 2023 08:38:20.846910, Osc\_Trigger On  
2268, C60, 227, Jan 17 2023 07:08:36.265660, Osc\_Trigger Off  
2269, C60, 226, Jan 17 2023 07:08:36.263160, OSCILLOGRAPHY TRIG'D  
2270, C60, 225, Jan 17 2023 07:08:36.263160, Osc\_Trigger On  
2271, D60, 38686, Jan 17 2023 07:08:36.122309, PH DIR2 BLK B  
2272, C60, 224, Jan 17 2023 07:08:36.078195, Osc\_Trigger Off  
2273, C60, 223, Jan 17 2023 07:08:36.075695, OSCILLOGRAPHY TRIG'D  
2274, C60, 222, Jan 17 2023 07:08:36.075695, Osc\_Trigger On  
2275, C60, 221, Jan 13 2023 22:15:36.861045, Osc\_Trigger Off  
2276, C60, 220, Jan 13 2023 22:15:36.858544, OSCILLOGRAPHY TRIG'D  
2277, C60, 219, Jan 13 2023 22:15:36.858544, Osc\_Trigger On  
2278, D60, 38685, Jan 13 2023 22:15:36.855188, PH DIR2 BLK B  
2279, C60, 218, Jan 11 2023 22:00:24.520641, Osc\_Trigger Off  
2280, C60, 217, Jan 11 2023 22:00:24.518148, OSCILLOGRAPHY TRIG'D  
2281, C60, 216, Jan 11 2023 22:00:24.518148, Osc\_Trigger On  
2282, C60, 215, Jan 09 2023 16:49:42.622027, Osc\_Trigger Off  
2283, C60, 214, Jan 09 2023 16:49:42.619518, OSCILLOGRAPHY TRIG'D  
2284, C60, 213, Jan 09 2023 16:49:42.619518, Osc\_Trigger On  
2285, C60, 212, Jan 09 2023 16:49:42.383632, Osc\_Trigger Off  
2286, C60, 211, Jan 09 2023 16:49:42.381122, OSCILLOGRAPHY TRIG'D  
2287, C60, 210, Jan 09 2023 16:49:42.381122, Osc\_Trigger On  
2288, C60, 209, Jan 08 2023 09:24:10.668912, Osc\_Trigger Off  
2289, C60, 208, Jan 08 2023 09:24:10.666410, OSCILLOGRAPHY TRIG'D  
2290, C60, 207, Jan 08 2023 09:24:10.666410, Osc\_Trigger On  
2291, C60, 206, Jan 05 2023 21:46:56.548768, Osc\_Trigger Off  
2292, C60, 205, Jan 05 2023 21:46:56.546272, OSCILLOGRAPHY TRIG'D  
2293, C60, 204, Jan 05 2023 21:46:56.546272, Osc\_Trigger On  
2294, C60, 203, Jan 05 2023 12:52:39.317223, Osc\_Trigger Off  
2295, C60, 202, Jan 05 2023 12:52:39.314725, OSCILLOGRAPHY TRIG'D

2296, C60, 201, Jan 05 2023 12:52:39.314725, Osc\_Trigger On  
2297, C60, 200, Jan 05 2023 12:52:39.217456, Osc\_Trigger Off  
2298, C60, 199, Jan 05 2023 12:52:39.214964, OSCILLOGRAPHY TRIG'D  
2299, C60, 198, Jan 05 2023 12:52:39.214964, Osc\_Trigger On  
2300, C60, 197, Dec 22 2022 15:15:57.702069, Osc\_Trigger Off  
2301, C60, 196, Dec 22 2022 15:15:57.699563, OSCILLOGRAPHY TRIG'D  
2302, C60, 195, Dec 22 2022 15:15:57.699563, Osc\_Trigger On  
2303, D60, 38684, Dec 21 2022 12:02:39.518387, GROUND TOC1 DPO  
2304, D60, 38683, Dec 21 2022 12:02:39.468375, PH DIR2 BLK B  
2305, D60, 38682, Dec 21 2022 12:02:39.455880, PH DIR2 BLK A  
2306, D60, 38681, Dec 21 2022 12:02:39.418398, GROUND TOC1 PKP  
2307, D60, 38680, Dec 21 2022 12:02:39.410900, PH DIR2 BLK A  
2308, C60, 194, Dec 21 2022 12:02:39.401756, Osc\_Trigger Off  
2309, C60, 193, Dec 21 2022 12:02:39.399255, OSCILLOGRAPHY TRIG'D  
2310, C60, 192, Dec 21 2022 12:02:39.399255, Osc\_Trigger On  
2311, C60, 191, Dec 18 2022 19:10:41.865232, Osc\_Trigger Off  
2312, C60, 190, Dec 18 2022 19:10:41.862730, OSCILLOGRAPHY TRIG'D  
2313, C60, 189, Dec 18 2022 19:10:41.862730, Osc\_Trigger On  
2314, C60, 188, Dec 17 2022 18:43:48.290769, Osc\_Trigger Off  
2315, C60, 187, Dec 17 2022 18:43:48.288263, OSCILLOGRAPHY TRIG'D  
2316, C60, 186, Dec 17 2022 18:43:48.288263, Osc\_Trigger On  
2317, C60, 185, Dec 17 2022 18:43:33.806224, Osc\_Trigger Off  
2318, C60, 184, Dec 17 2022 18:43:33.803733, OSCILLOGRAPHY TRIG'D  
2319, C60, 183, Dec 17 2022 18:43:33.803733, Osc\_Trigger On  
2320, C60, 182, Dec 17 2022 18:27:58.958114, Osc\_Trigger Off  
2321, C60, 181, Dec 17 2022 18:27:58.955621, OSCILLOGRAPHY TRIG'D  
2322, C60, 180, Dec 17 2022 18:27:58.955621, Osc\_Trigger On  
2323, C60, 179, Dec 17 2022 18:17:12.103139, Osc\_Trigger Off  
2324, C60, 178, Dec 17 2022 18:17:12.100642, OSCILLOGRAPHY TRIG'D  
2325, C60, 177, Dec 17 2022 18:17:12.100642, Osc\_Trigger On  
2326, C60, 176, Dec 17 2022 18:16:59.772171, Osc\_Trigger Off  
2327, C60, 175, Dec 17 2022 18:16:59.769678, OSCILLOGRAPHY TRIG'D  
2328, C60, 174, Dec 17 2022 18:16:59.769678, Osc\_Trigger On  
2329, C60, 173, Dec 16 2022 16:00:55.046065, Osc\_Trigger Off  
2330, C60, 172, Dec 16 2022 16:00:55.043571, OSCILLOGRAPHY TRIG'D  
2331, C60, 171, Dec 16 2022 16:00:55.043571, Osc\_Trigger On  
2332, C60, 170, Dec 16 2022 14:39:34.172921, Osc\_Trigger Off  
2333, C60, 169, Dec 16 2022 14:39:34.170422, OSCILLOGRAPHY TRIG'D  
2334, C60, 168, Dec 16 2022 14:39:34.170422, Osc\_Trigger On  
2335, C60, 167, Dec 16 2022 12:47:54.006463, Osc\_Trigger Off  
2336, C60, 166, Dec 16 2022 12:47:54.003965, OSCILLOGRAPHY TRIG'D  
2337, C60, 165, Dec 16 2022 12:47:54.003965, Osc\_Trigger On  
2338, C60, 164, Dec 13 2022 12:56:53.518336, Osc\_Trigger Off  
2339, C60, 163, Dec 13 2022 12:56:53.515832, OSCILLOGRAPHY TRIG'D  
2340, C60, 162, Dec 13 2022 12:56:53.515832, Osc\_Trigger On  
2341, C60, 161, Dec 11 2022 18:31:51.466306, Osc\_Trigger Off  
2342, C60, 160, Dec 11 2022 18:31:51.463817, OSCILLOGRAPHY TRIG'D  
2343, C60, 159, Dec 11 2022 18:31:51.463817, Osc\_Trigger On  
2344, C60, 158, Dec 11 2022 18:31:39.526467, Osc\_Trigger Off  
2345, C60, 157, Dec 11 2022 18:31:39.523978, OSCILLOGRAPHY TRIG'D

2346, C60, 156, Dec 11 2022 18:31:39.523978, Osc\_Trigger On  
2347, C60, 155, Dec 10 2022 16:27:41.742220, Osc\_Trigger Off  
2348, C60, 154, Dec 10 2022 16:27:41.739718, OSCILLOGRAPHY TRIG'D  
2349, C60, 153, Dec 10 2022 16:27:41.739718, Osc\_Trigger On  
2350, C60, 152, Dec 02 2022 20:42:01.915073, CC\_RESTM1 Off  
2351, C60, 151, Dec 02 2022 20:11:40.880383, CC\_RESTM1 On  
2352, D60, 38679, Nov 28 2022 19:16:31.357729, PH DIR2 BLK A  
2353, D60, 38678, Nov 28 2022 19:16:30.885530, PH DIR2 BLK A  
2354, C60, 150, Nov 23 2022 18:56:16.547588, Osc\_Trigger Off  
2355, C60, 149, Nov 23 2022 18:56:16.545088, OSCILLOGRAPHY TRIG'D  
2356, C60, 148, Nov 23 2022 18:56:16.545088, Osc\_Trigger On  
2357, C60, 147, Nov 20 2022 13:30:17.374535, Osc\_Trigger Off  
2358, C60, 146, Nov 20 2022 13:30:17.372032, OSCILLOGRAPHY TRIG'D  
2359, C60, 145, Nov 20 2022 13:30:17.372032, Osc\_Trigger On  
2360, C60, 144, Nov 17 2022 03:20:46.036194, Osc\_Trigger Off  
2361, C60, 143, Nov 17 2022 03:20:46.033696, OSCILLOGRAPHY TRIG'D  
2362, C60, 142, Nov 17 2022 03:20:46.033696, Osc\_Trigger On  
2363, D60, 38677, Nov 17 2022 03:20:46.020322, PH DIR2 BLK C  
2364, C60, 141, Nov 17 2022 03:20:45.961199, Osc\_Trigger Off  
2365, C60, 140, Nov 17 2022 03:20:45.958700, OSCILLOGRAPHY TRIG'D  
2366, C60, 139, Nov 17 2022 03:20:45.958700, Osc\_Trigger On  
2367, C60, 138, Nov 15 2022 00:37:52.723301, Osc\_Trigger Off  
2368, C60, 137, Nov 15 2022 00:37:52.720795, OSCILLOGRAPHY TRIG'D  
2369, C60, 136, Nov 15 2022 00:37:52.720795, Osc\_Trigger On  
2370, C60, 135, Nov 15 2022 00:37:52.630793, Osc\_Trigger Off  
2371, C60, 134, Nov 15 2022 00:37:52.628294, OSCILLOGRAPHY TRIG'D  
2372, C60, 133, Nov 15 2022 00:37:52.628294, Osc\_Trigger On  
2373, C60, 132, Nov 15 2022 00:31:40.451791, Osc\_Trigger Off  
2374, C60, 131, Nov 15 2022 00:31:40.449286, OSCILLOGRAPHY TRIG'D  
2375, C60, 130, Nov 15 2022 00:31:40.449286, Osc\_Trigger On  
2376, C60, 129, Nov 15 2022 00:31:40.351544, Osc\_Trigger Off  
2377, C60, 128, Nov 15 2022 00:31:40.349040, OSCILLOGRAPHY TRIG'D  
2378, C60, 127, Nov 15 2022 00:31:40.349040, Osc\_Trigger On  
2379, C60, 126, Nov 06 2022 12:20:25.359874, RESET OP(PUSHBUTTON)  
2380, C60, 125, Nov 06 2022 12:20:19.917203, CB2\_RESFLT Off  
2381, C60, 124, Nov 06 2022 12:20:10.916048, CB2\_RESFLT On  
2382, D60, 38676, Nov 06 2022 12:20:03.155842, RESET OP(PUSHBUTTON)  
2383, C60, 123, Nov 06 2022 12:19:09.005404, CB2\_RESFLT Off  
2384, D60, 38675, Nov 06 2022 12:19:08.911925, PHASE TOC2 DPO B  
2385, D60, 38674, Nov 06 2022 12:19:08.911925, PHASE TOC1 DPO B  
2386, D60, 38673, Nov 06 2022 12:19:08.851873, PHASE TOC2 DPO A  
2387, D60, 38672, Nov 06 2022 12:19:08.851873, PHASE TOC1 DPO A  
2388, D60, 38671, Nov 06 2022 12:19:08.761825, PHASE TOC2 DPO C  
2389, D60, 38670, Nov 06 2022 12:19:08.761825, PHASE TOC1 DPO C  
2390, D60, 38669, Nov 06 2022 12:19:08.746819, PHASE IOC1 DPO B  
2391, D60, 38668, Nov 06 2022 12:19:08.741815, PHASE TOC2 PKP C  
2392, D60, 38667, Nov 06 2022 12:19:08.741815, PHASE TOC2 PKP A  
2393, D60, 38666, Nov 06 2022 12:19:08.741815, PHASE TOC1 PKP C  
2394, D60, 38665, Nov 06 2022 12:19:08.741815, PHASE TOC1 PKP A  
2395, D60, 38664, Nov 06 2022 12:19:08.741815, GROUND TOC1 DPO

2396, C60, 122, Nov 06 2022 12:19:08.740166, 52T\_CLOSE\_L Off  
2397, D60, 38663, Nov 06 2022 12:19:08.731810, PHASE TOC2 PKP B  
2398, D60, 38662, Nov 06 2022 12:19:08.731810, PHASE TOC1 PKP B  
2399, D60, 38661, Nov 06 2022 12:19:08.731810, GROUND TOC1 PKP  
2400, D60, 38660, Nov 06 2022 12:19:08.726808, PHASE IOC1 PKP B  
2401, C60, 121, Nov 06 2022 12:19:08.717651, CB2\_RESFLT On  
2402, C60, 120, Nov 06 2022 12:19:08.717651, Osc\_Trigger Off  
2403, D60, 38659, Nov 06 2022 12:19:08.716801, PH DIR2 BLK A  
2404, C60, 119, Nov 06 2022 12:19:08.715148, OSCILLOGRAPHY TRIG'D  
2405, C60, 118, Nov 06 2022 12:19:08.715148, Osc\_Trigger On  
2406, D60, 38658, Nov 06 2022 12:19:08.714299, PH DIR2 BLK C  
2407, D60, 38657, Nov 06 2022 12:19:08.714299, PH DIR2 BLK B  
2408, C60, 117, Nov 06 2022 12:19:08.710144, BREAKER 1 OPEN  
2409, D60, 38656, Nov 06 2022 12:19:08.706402, 52HT\_CERRADO On  
2410, C60, 116, Nov 06 2022 12:19:08.690128, BREAKER 1 [A] INTERM  
2411, D60, 38655, Nov 06 2022 12:19:08.687402, 52HT\_ABIERTO Off  
2412, C60, 115, Nov 06 2022 12:19:08.637589, 52T\_CLOSE\_L On  
2413, C60, 114, Nov 06 2022 12:19:08.637589, BREAKER 1 MNL CLS  
2414, C60, 113, Nov 06 2022 12:19:08.637589, BREAKER 1 ON CMD  
2415, C60, 112, Nov 06 2022 11:32:23.301544, 891T\_27LINEA Off  
2416, C60, 111, Nov 06 2022 11:32:23.301544, SYNC 1 CLS DPO  
2417, C60, 110, Nov 06 2022 11:32:23.301544, SYNC 1 DEAD S DPO  
2418, C60, 109, Nov 06 2022 09:39:38.420035, CB2\_RESFLT Off  
2419, C60, 108, Nov 06 2022 09:39:19.397249, CB2\_RESFLT On  
2420, C60, 107, Nov 06 2022 09:39:18.118931, 891T\_27LINEA On  
2421, C60, 106, Nov 06 2022 09:39:18.118931, SYNC 1 CLS OP  
2422, C60, 105, Nov 06 2022 09:39:18.118931, SYNC 1 DEAD S OP  
2423, C60, 104, Nov 06 2022 09:39:18.078884, 891T\_27LINEA Off  
2424, C60, 103, Nov 06 2022 09:39:18.078884, SYNC 1 CLS DPO  
2425, C60, 102, Nov 06 2022 09:39:18.078884, SYNC 1 DEAD S DPO  
2426, D60, 38654, Nov 06 2022 09:39:18.065270, 52T\_TRIP2 Off  
2427, D60, 38653, Nov 06 2022 09:39:18.065270, 52T\_TRIP1 Off  
2428, D60, 38652, Nov 06 2022 09:39:18.065270, PHASE TOC2 DPO C  
2429, D60, 38651, Nov 06 2022 09:39:18.065270, PHASE TOC2 DPO A  
2430, D60, 38650, Nov 06 2022 09:39:18.065270, PHASE TOC1 DPO C  
2431, D60, 38649, Nov 06 2022 09:39:18.065270, PHASE TOC1 DPO A  
2432, D60, 38648, Nov 06 2022 09:39:18.065270, GROUND TOC1 DPO  
2433, D60, 38647, Nov 06 2022 09:39:18.055253, PHASE TOC2 DPO B  
2434, D60, 38646, Nov 06 2022 09:39:18.055253, PHASE TOC1 DPO B  
2435, D60, 38645, Nov 06 2022 09:39:18.055253, PHASE IOC1 DPO C  
2436, D60, 38644, Nov 06 2022 09:39:18.052749, PHASE IOC1 DPO A  
2437, D60, 38643, Nov 06 2022 09:39:18.050244, PHASE IOC1 DPO B  
2438, C60, 101, Nov 06 2022 09:39:18.048839, BREAKER 1 CLOSED  
2439, D60, 38642, Nov 06 2022 09:39:18.047742, GND DIST Z3 DPO C  
2440, C60, 100, Nov 06 2022 09:39:18.046334, Osc\_Trigger Off  
2441, D60, 38641, Nov 06 2022 09:39:18.044802, 52HT\_ABIERTO On  
2442, C60, 99, Nov 06 2022 09:39:18.043830, QP\_Abfd60 Off  
2443, C60, 98, Nov 06 2022 09:39:18.043830, OSCILLOGRAPHY TRIG'D  
2444, C60, 97, Nov 06 2022 09:39:18.043830, Osc\_Trigger On  
2445, D60, 38640, Nov 06 2022 09:39:18.039299, QP\_Abfd60 Off



2446, D60, 38639, Nov 06 2022 09:39:18.035221, PHASE TOC2 OP C  
2447, D60, 38638, Nov 06 2022 09:39:18.032716, ABF\_T60 Off  
2448, C60, 96, Nov 06 2022 09:39:18.031306, BREAKER 1 [A INTERM  
2449, D60, 38637, Nov 06 2022 09:39:18.028295, 52HT\_CERRADO Off  
2450, D60, 38636, Nov 06 2022 09:39:18.020195, BKR FAIL 1 TRIP OP  
2451, C60, 95, Nov 06 2022 09:39:18.001254, QP\_ABFD60 On  
2452, D60, 38635, Nov 06 2022 09:39:17.996759, QP\_ABFD60 On  
2453, D60, 38634, Nov 06 2022 09:39:17.995136, PHASE IOC1 OP B  
2454, D60, 38633, Nov 06 2022 09:39:17.992631, ABF\_T60 On  
2455, D60, 38632, Nov 06 2022 09:39:17.992631, PHASE IOC1 OP A  
2456, D60, 38631, Nov 06 2022 09:39:17.990127, 52T\_TRIP2 On  
2457, D60, 38630, Nov 06 2022 09:39:17.990127, 52T\_TRIP1 On  
2458, D60, 38629, Nov 06 2022 09:39:17.990127, PHASE IOC1 OP C  
2459, C60, 94, Nov 06 2022 09:39:17.878515, 891T\_27LINEA On  
2460, C60, 93, Nov 06 2022 09:39:17.878515, SYNC 1 CLS OP  
2461, C60, 92, Nov 06 2022 09:39:17.878515, SYNC 1 DEAD S OP  
2462, C60, 91, Nov 06 2022 09:39:17.818409, 891T\_27LINEA Off  
2463, C60, 90, Nov 06 2022 09:39:17.818409, SYNC 1 CLS DPO  
2464, C60, 89, Nov 06 2022 09:39:17.818409, SYNC 1 DEAD S DPO  
2465, D60, 38628, Nov 06 2022 09:39:17.679820, Osc\_Trigger Off  
2466, D60, 38627, Nov 06 2022 09:39:17.677321, OSCILLOGRAPHY TRIG'D  
2467, D60, 38626, Nov 06 2022 09:39:17.677321, Osc\_Trigger On  
2468, D60, 38625, Nov 06 2022 09:39:17.677321, GND DIST Z3 PKP C  
2469, D60, 38624, Nov 06 2022 09:39:17.664817, PHASE TOC2 PKP C  
2470, D60, 38623, Nov 06 2022 09:39:17.664817, PHASE TOC2 PKP B  
2471, D60, 38622, Nov 06 2022 09:39:17.664817, PHASE TOC2 PKP A  
2472, D60, 38621, Nov 06 2022 09:39:17.664817, PHASE TOC1 PKP C  
2473, D60, 38620, Nov 06 2022 09:39:17.664817, PHASE TOC1 PKP B  
2474, D60, 38619, Nov 06 2022 09:39:17.664817, PHASE TOC1 PKP A  
2475, D60, 38618, Nov 06 2022 09:39:17.664817, GROUND TOC1 PKP  
2476, D60, 38617, Nov 06 2022 09:39:17.664817, PHASE IOC1 PKP B  
2477, D60, 38616, Nov 06 2022 09:39:17.662315, PHASE IOC1 PKP A  
2478, D60, 38615, Nov 06 2022 09:39:17.659814, PHASE IOC1 PKP C  
2479, C60, 88, Nov 06 2022 09:39:17.658156, 891T\_27LINEA On  
2480, C60, 87, Nov 06 2022 09:39:17.658156, SYNC 1 CLS OP  
2481, C60, 86, Nov 06 2022 09:39:17.658156, SYNC 1 DEAD S OP  
2482, D60, 38614, Nov 06 2022 09:39:17.652308, PH DIR2 BLK A  
2483, D60, 38613, Nov 06 2022 09:39:17.652308, NTRL DIR OC1 FWD  
2484, C60, 85, Nov 06 2022 09:39:17.648153, Osc\_Trigger Off  
2485, C60, 84, Nov 06 2022 09:39:17.645651, OSCILLOGRAPHY TRIG'D  
2486, C60, 83, Nov 06 2022 09:39:17.645651, Osc\_Trigger On  
2487, D60, 38612, Nov 06 2022 09:39:17.644799, PH DIR2 BLK B  
2488, D60, 38611, Oct 31 2022 01:02:25.726227, PH DIR2 BLK B  
2489, D60, 38610, Oct 31 2022 01:02:21.962470, PH DIR2 BLK B  
2490, C60, 82, Oct 27 2022 22:05:42.552378, Osc\_Trigger Off  
2491, C60, 81, Oct 27 2022 22:05:42.549883, OSCILLOGRAPHY TRIG'D  
2492, C60, 80, Oct 27 2022 22:05:42.549883, Osc\_Trigger On  
2493, D60, 38609, Oct 27 2022 22:05:42.491698, PH DIR2 BLK A  
2494, C60, 79, Oct 27 2022 22:05:42.480071, Osc\_Trigger Off  
2495, C60, 78, Oct 27 2022 22:05:42.477579, OSCILLOGRAPHY TRIG'D

2496, C60, 77, Oct 27 2022 22:05:42.477579, Osc\_Trigger On  
2497, D60, 38608, Oct 27 2022 22:05:42.474245, PH DIR2 BLK B  
2498, C60, 76, Oct 25 2022 22:54:50.727058, Osc\_Trigger Off  
2499, C60, 75, Oct 25 2022 22:54:50.724562, OSCILLOGRAPHY TRIG'D  
2500, C60, 74, Oct 25 2022 22:54:50.724562, Osc\_Trigger On  
2501, C60, 73, Oct 25 2022 22:54:50.652217, Osc\_Trigger Off  
2502, C60, 72, Oct 25 2022 22:54:50.649722, OSCILLOGRAPHY TRIG'D  
2503, C60, 71, Oct 25 2022 22:54:50.649722, Osc\_Trigger On  
2504, D60, 38607, Oct 25 2022 22:54:50.643876, PH DIR2 BLK B  
2505, C60, 70, Oct 25 2022 14:39:24.927511, Osc\_Trigger Off  
2506, C60, 69, Oct 25 2022 14:39:24.925000, OSCILLOGRAPHY TRIG'D  
2507, C60, 68, Oct 25 2022 14:39:24.925000, Osc\_Trigger On  
2508, C60, 67, Oct 18 2022 21:35:20.840288, Osc\_Trigger Off  
2509, C60, 66, Oct 18 2022 21:35:20.837792, OSCILLOGRAPHY TRIG'D  
2510, C60, 65, Oct 18 2022 21:35:20.837792, Osc\_Trigger On  
2511, D60, 38606, Oct 18 2022 21:20:35.755119, PH DIR2 BLK B  
2512, D60, 38605, Oct 18 2022 21:20:35.672756, PH DIR2 BLK B  
2513, D60, 38604, Oct 18 2022 21:20:35.038855, PH DIR2 BLK B  
2514, D60, 38603, Oct 18 2022 21:20:32.957114, PH DIR2 BLK A  
2515, D60, 38602, Oct 18 2022 21:20:31.691578, PH DIR2 BLK A  
2516, D60, 38601, Oct 18 2022 21:20:31.611695, PH DIR2 BLK A  
2517, D60, 38600, Oct 18 2022 21:20:31.536812, PH DIR2 BLK A  
2518, D60, 38599, Oct 18 2022 21:20:31.469420, PH DIR2 BLK A  
2519, D60, 38598, Oct 18 2022 21:20:31.257262, PH DIR2 BLK C  
2520, D60, 38597, Oct 18 2022 21:20:31.219815, PH DIR2 BLK C  
2521, D60, 38596, Oct 18 2022 21:20:31.192355, PH DIR2 BLK C  
2522, D60, 38595, Oct 18 2022 21:20:31.172387, PH DIR2 BLK A  
2523, D60, 38594, Oct 18 2022 21:20:31.112489, PH DIR2 BLK A  
2524, D60, 38593, Oct 18 2022 21:20:30.850401, PH DIR2 BLK A  
2525, D60, 38592, Oct 18 2022 21:20:30.623281, PH DIR2 BLK C  
2526, D60, 38591, Oct 18 2022 21:20:30.623281, PH DIR2 BLK A  
2527, D60, 38590, Oct 18 2022 21:20:30.538411, PH DIR2 BLK C  
2528, D60, 38589, Oct 18 2022 21:20:30.523435, PH DIR2 BLK A  
2529, D60, 38588, Oct 18 2022 21:20:30.473522, PH DIR2 BLK C  
2530, D60, 38587, Oct 18 2022 21:20:30.463539, PH DIR2 BLK A  
2531, D60, 38586, Oct 18 2022 21:20:30.393662, PH DIR2 BLK C  
2532, D60, 38585, Oct 18 2022 21:20:30.383680, PH DIR2 BLK A  
2533, D60, 38584, Oct 18 2022 21:20:30.326283, PH DIR2 BLK C  
2534, D60, 38583, Oct 18 2022 21:20:30.248920, PH DIR2 BLK A  
2535, D60, 38582, Oct 18 2022 21:20:30.169051, PH DIR2 BLK A  
2536, D60, 38581, Oct 18 2022 21:20:30.099176, PH DIR2 BLK A  
2537, D60, 38580, Oct 18 2022 21:20:30.096675, PH DIR2 BLK C  
2538, D60, 38579, Oct 18 2022 21:20:30.046762, PH DIR2 BLK C  
2539, D60, 38578, Oct 18 2022 21:20:30.041775, PH DIR2 BLK A  
2540, D60, 38577, Oct 18 2022 21:20:30.024306, PH DIR2 BLK A  
2541, D60, 38576, Oct 18 2022 21:20:29.974375, PH DIR2 BLK C  
2542, D60, 38575, Oct 18 2022 21:20:29.971880, PH DIR2 BLK A  
2543, D60, 38574, Oct 18 2022 21:20:29.914486, PH DIR2 BLK C  
2544, D60, 38573, Oct 18 2022 21:20:29.909497, PH DIR2 BLK A  
2545, D60, 38572, Oct 18 2022 21:20:29.832142, PH DIR2 BLK C

2546, D60, 38571, Oct 18 2022 21:20:29.809683, PH DIR2 BLK A  
2547, D60, 38570, Oct 18 2022 21:20:29.779736, PH DIR2 BLK A  
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2550, D60, 38567, Oct 18 2022 21:20:29.677428, PH DIR2 BLK C  
2551, D60, 38566, Oct 18 2022 21:20:29.674933, PH DIR2 BLK A  
2552, D60, 38565, Oct 18 2022 21:20:29.605066, PH DIR2 BLK C  
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2554, D60, 38563, Oct 18 2022 21:20:29.555161, PH DIR2 BLK C  
2555, D60, 38562, Oct 18 2022 21:20:29.550169, PH DIR2 BLK A  
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2563, D60, 38554, Oct 18 2022 21:20:29.253244, PH DIR2 BLK C  
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2568, D60, 38549, Oct 18 2022 21:20:29.106036, PH DIR2 BLK C  
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2618, D60, 38499, Oct 18 2022 21:20:27.102781, PH DIR2 BLK C  
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2627, D60, 38490, Oct 18 2022 21:20:26.878297, PH DIR2 BLK A  
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2629, D60, 38488, Oct 18 2022 21:20:26.828415, PH DIR2 BLK A  
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2648, C60, 64, Oct 09 2022 03:33:36.162459, Osc\_Trigger Off  
2649, C60, 63, Oct 09 2022 03:33:36.159950, OSCILLOGRAPHY TRIG'D  
2650, C60, 62, Oct 09 2022 03:33:36.159950, Osc\_Trigger On  
2651, C60, 61, Oct 07 2022 02:23:31.059415, Osc\_Trigger Off  
2652, C60, 60, Oct 07 2022 02:23:31.056911, OSCILLOGRAPHY TRIG'D  
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2654, C60, 58, Oct 01 2022 02:03:15.875615, Osc\_Trigger Off  
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2657, C60, 55, Oct 01 2022 02:03:15.117703, Osc\_Trigger Off  
2658, C60, 54, Oct 01 2022 02:03:15.115202, OSCILLOGRAPHY TRIG'D  
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2660, C60, 52, Sep 30 2022 10:21:56.090226, Osc\_Trigger Off  
2661, C60, 51, Sep 30 2022 10:21:56.087722, OSCILLOGRAPHY TRIG'D  
2662, C60, 50, Sep 30 2022 10:21:56.087722, Osc\_Trigger On  
2663, C60, 49, Sep 27 2022 12:40:15.194986, Osc\_Trigger Off  
2664, C60, 48, Sep 27 2022 12:40:15.192491, OSCILLOGRAPHY TRIG'D  
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2666, C60, 46, Sep 26 2022 10:22:42.826082, Osc\_Trigger Off  
2667, C60, 45, Sep 26 2022 10:22:42.823582, OSCILLOGRAPHY TRIG'D  
2668, C60, 44, Sep 26 2022 10:22:42.823582, Osc\_Trigger On  
2669, C60, 43, Sep 18 2022 20:46:31.556457, Osc\_Trigger Off  
2670, C60, 42, Sep 18 2022 20:46:31.553960, OSCILLOGRAPHY TRIG'D  
2671, C60, 41, Sep 18 2022 20:46:31.553960, Osc\_Trigger On  
2672, C60, 40, Sep 18 2022 20:46:31.179831, Osc\_Trigger Off  
2673, C60, 39, Sep 18 2022 20:46:31.177336, OSCILLOGRAPHY TRIG'D  
2674, C60, 38, Sep 18 2022 20:46:31.177336, Osc\_Trigger On  
2675, C60, 37, Sep 18 2022 20:46:31.047639, Osc\_Trigger Off  
2676, C60, 36, Sep 18 2022 20:46:31.045144, OSCILLOGRAPHY TRIG'D  
2677, C60, 35, Sep 18 2022 20:46:31.045144, Osc\_Trigger On  
2678, C60, 34, Sep 16 2022 19:07:21.864332, Osc\_Trigger Off  
2679, C60, 33, Sep 16 2022 19:07:21.861835, OSCILLOGRAPHY TRIG'D  
2680, C60, 32, Sep 16 2022 19:07:21.861835, Osc\_Trigger On  
2681, C60, 31, Sep 16 2022 19:07:21.771990, Osc\_Trigger Off  
2682, C60, 30, Sep 16 2022 19:07:21.769494, OSCILLOGRAPHY TRIG'D  
2683, C60, 29, Sep 16 2022 19:07:21.769494, Osc\_Trigger On  
2684, C60, 28, Sep 13 2022 17:27:59.498905, Osc\_Trigger Off  
2685, C60, 27, Sep 13 2022 17:27:59.496411, OSCILLOGRAPHY TRIG'D  
2686, C60, 26, Sep 13 2022 17:27:59.496411, Osc\_Trigger On  
2687, C60, 25, Sep 08 2022 16:10:21.135299, Osc\_Trigger Off  
2688, C60, 24, Sep 08 2022 16:10:21.132791, OSCILLOGRAPHY TRIG'D  
2689, C60, 23, Sep 08 2022 16:10:21.132791, Osc\_Trigger On  
2690, C60, 22, Sep 08 2022 16:10:21.077766, Osc\_Trigger Off  
2691, C60, 21, Sep 08 2022 16:10:21.075266, OSCILLOGRAPHY TRIG'D  
2692, C60, 20, Sep 08 2022 16:10:21.075266, Osc\_Trigger On  
2693, C60, 19, Sep 03 2022 00:58:31.241249, Osc\_Trigger Off  
2694, C60, 18, Sep 03 2022 00:58:31.238743, OSCILLOGRAPHY TRIG'D  
2695, C60, 17, Sep 03 2022 00:58:31.238743, Osc\_Trigger On



2696, C60, 16, Aug 28 2022 21:52:47.160091, Osc\_Trigger Off  
2697, C60, 15, Aug 28 2022 21:52:47.157587, OSCILLOGRAPHY TRIG'D  
2698, C60, 14, Aug 28 2022 21:52:47.157587, Osc\_Trigger On  
2699, C60, 13, Aug 28 2022 18:26:57.349540, Osc\_Trigger Off  
2700, C60, 12, Aug 28 2022 18:26:57.347035, OSCILLOGRAPHY TRIG'D  
2701, C60, 11, Aug 28 2022 18:26:57.347035, Osc\_Trigger On  
2702, C60, 10, Aug 28 2022 18:21:12.724716, Osc\_Trigger Off  
2703, C60, 9, Aug 28 2022 18:21:12.722220, OSCILLOGRAPHY TRIG'D  
2704, C60, 8, Aug 28 2022 18:21:12.722220, Osc\_Trigger On  
2705, C60, 7, Aug 20 2022 17:46:31.640460, Osc\_Trigger Off  
2706, C60, 6, Aug 20 2022 17:46:31.637968, OSCILLOGRAPHY TRIG'D  
2707, C60, 5, Aug 20 2022 17:46:31.637968, Osc\_Trigger On  
2708, C60, 4, Aug 20 2022 17:46:31.371228, Osc\_Trigger Off  
2709, C60, 3, Aug 20 2022 17:46:31.368736, OSCILLOGRAPHY TRIG'D  
2710, C60, 2, Aug 20 2022 17:46:31.368736, Osc\_Trigger On  
2711, C60, 1, Aug 19 2022 20:53:43.061889, EVENTS CLEARED

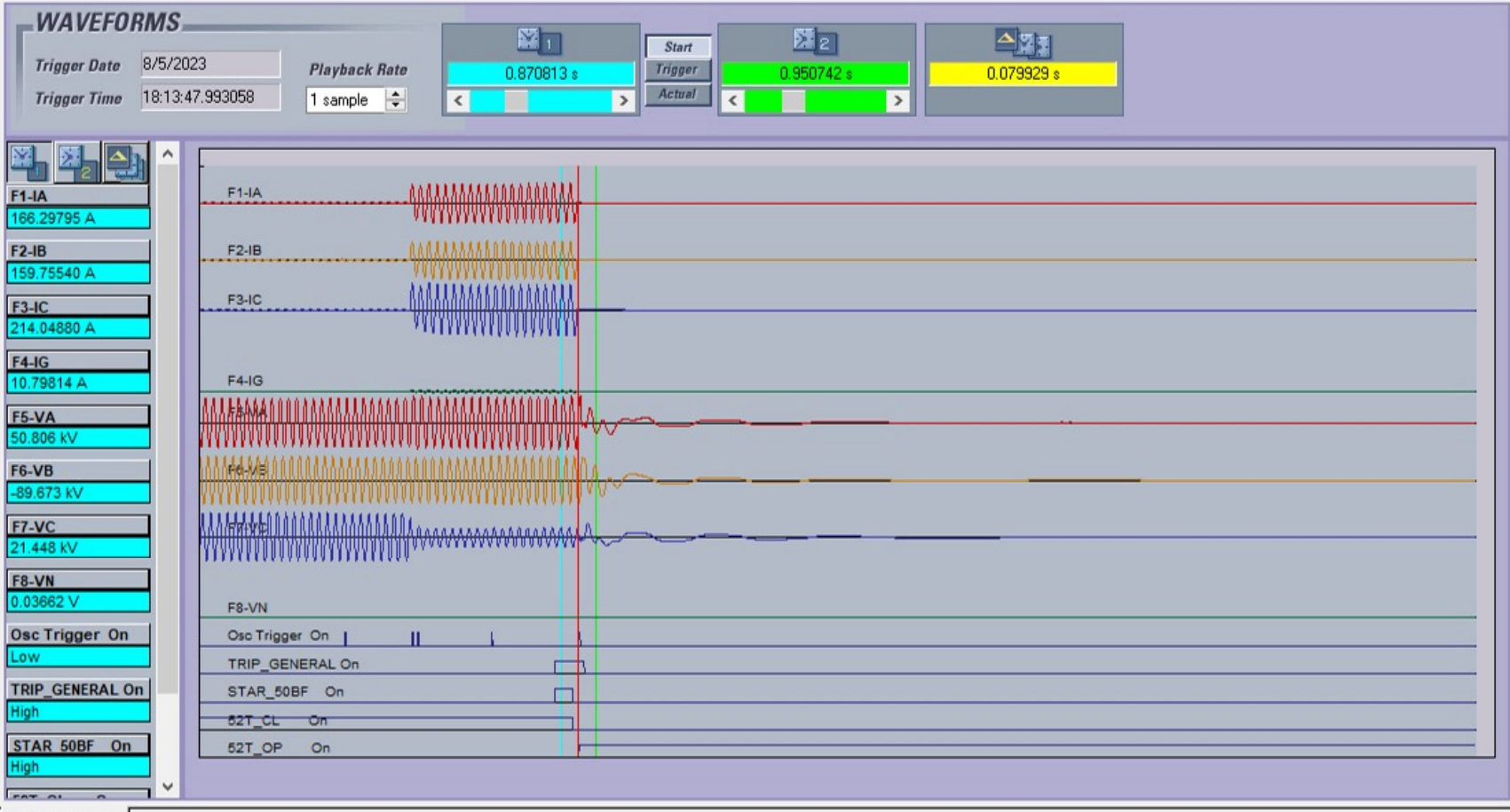
Online Window

Device Setup Quick Connect  
Device Quick Connect Device

- Quick Connect
  - Quick Connect Device
  - Site Clear Records
  - Synchronize Devices
  - Site Event Recorder
  - Site Targets

Offline Window

- Devices



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Online Window

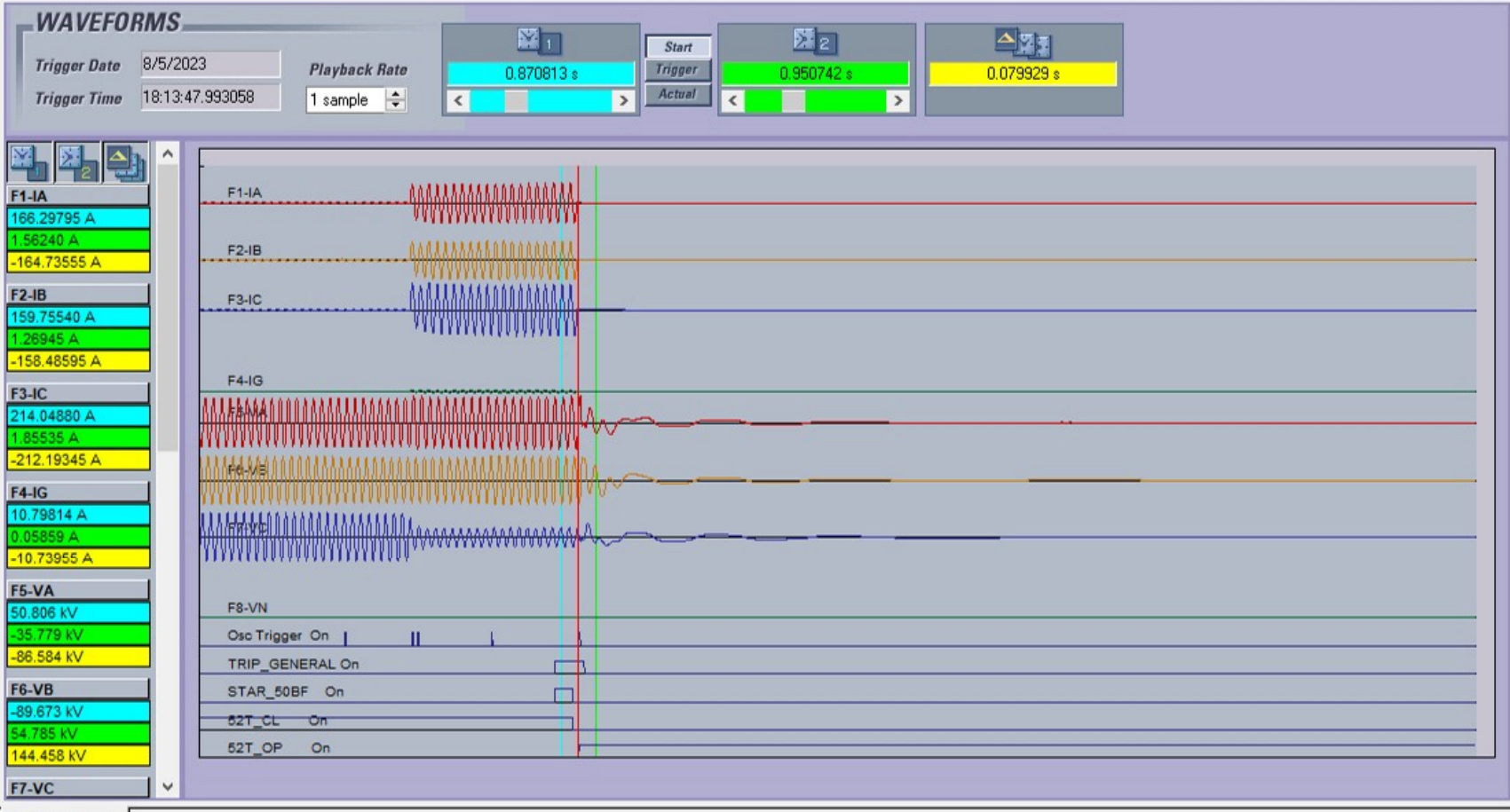
Device Setup Quick Connect

Device Quick Connect Device

Display last COMTRADE Record

- Quick Connect
  - Quick Connect Device
  - Site Clear Records
  - Synchronize Devices
  - Site Event Recorder
  - Site Targets

- Offline Window
- Devices



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