Chilled Water Alarm Response

ETF Alarm Response Procedure
Effluent Treatment Facility

USQ Not Required – ETF is a <Hazard Category 3 Radiological Facility

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Alarm

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RECORDS

No records are generated during the performance of this procedure.
CHILLED WATER OPERATION FAILURE

Description: CHILLED H₂O OPERATION FAILURE

Setpoint: Logic permissive(s) not met

Alarm Location: Logic generated alarm

Graphic: Alarm Summary Screen

Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Automatic Actions:

None.

Immediate Actions:

[1] REQUEST SOE perform the following actions, as specified:

[1.1] (SOE) ENSURE CWS aligned for Auto mode per ETF-45B-001.

[1.2] (SOE) IF selected pump alarm (45-P1A-A) [45-P1B-A] is annunciated, GO TO applicable alarm response page.

[1.3] (SOE) IF selected chiller alarm (45B-EVU2A-A) [45B-EVU2B-A] is annunciated, GO TO applicable alarm response page.

Possible Causes:

1. With chilled water system operating in auto mode:

- Both chilled water pumps stopped
- Selected chilled water pump taken to manual
- Selected chilled water pump alarm annunciated
- Both chilled water chiller alarms annunciated.

References:

Drawings: H-2-89325, H-2-89312
Documents: ETF-45B-001, HVAC Chilled Water System Operation
**Chilled Water Alarm Response**

**CHILLED WATER PUMP A ALARM**

**Description:** CHILLED H₂O PUMP A (45B-P1A-A)

**Setpoint:** Logic permissive(s) not met

**Alarm Location:** Logic generated alarm

**Graphic:** Alarm Summary Screen

**Indications:** N/A

**NOTE** - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

**Automatic Actions:**

1. If operating in automatic mode and chilled water pump B (45B-P1B) is selected for Auto, 45B-P1B will start.

**Immediate Actions:**

[1] **REQUEST** the SOE perform the following actions, as specified:

[1.1] **(SOE) CHECK** circuit breaker at MCC-4 (45B-P1A).

[1.2] **IF** breaker tripped, **REQUEST** Maintenance troubleshoot and reset.

**Possible Causes:**

1. Circuit breaker MCC-4 (45B-P1A) open/tripped.
3. Control fuse blown.

**References:**

- **Drawings:** H-2-89325, H-2-89312
- **Documents:** None
CHILLED WATER PUMP B ALARM

Description: CHILLED H₂O PUMP B (45B-P1B-A)
Setpoint: Logic permissive(s) not met
Alarm Location: Logic generated alarm
Graphic: Alarm Summary Screen
Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Automatic Actions:
1. If operating in automatic mode and chilled water pump P1A (45B-P-1A) is selected for Auto, 45B-P1A will start.

Immediate Actions:
1. REQUEST the SOE perform the following actions, as specified:
2. (SOE) CHECK the circuit breaker at MCC-1 (45B-P-1B).
3. (SOE) IF breaker tripped, REQUEST Maintenance troubleshoot and reset.

Possible Causes:
1. Circuit breaker MCC-1 (45B-P-1B) open/tripped.
3. Control fuse blown.

References:
Drawings: H-2-89325, H-2-89312
Documents: None
WATER CHILLER A ALARM

Description: CHILLED H₂O CHILLER A (45B-EVU2A-A)
Setpoint: Various Chiller Faults
Alarm Location: Chiller Package Auxiliary Alarm Contact
Graphic: Alarm Summary Screen
Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Automatic Actions:
None.

Immediate Actions:

[1] REQUEST the SOE perform the following actions, as specified:
[1.1] (SOE) CHECK the circuit breaker MDP-3, CKT-6 (45B-EVU-2A).
[1.2] (SOE) IF breaker tripped, REQUEST Maintenance troubleshoot and reset.
[1.3] (SOE) CHECK the display at chiller local control panel.
[1.4] (SOE) IF no display is evident, REQUEST Maintenance troubleshoot chiller loss of power.
[1.5] (SOE) IF power to the chiller is available, CONTACT Refrigerated Equipment Services for additional troubleshooting.

Possible Causes:
1. Circuit breaker MDP-3-6 (45B-EVU-2A) open/tripped.
3. Control fuse blown.

References:
Drawings: H-2-89325, H-2-89312
Documents: None
WATER CHILLER B ALARM

Description: CHILLED H₂O CHILLER B (45B-EVU2B-A)
Setpoint: Various Chiller Faults
Alarm Location: Chiller Package Auxiliary Alarm Contact
Graphic: Alarm Summary Screen
Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved work activities or procedures.

Automatic Actions:
None.

Immediate Actions:

[1] REQUEST the SOE perform the following actions, as specified:
[1.2] (SOE) IF the breaker tripped, REQUEST Maintenance troubleshoot and reset.
[1.3] (SOE) CHECK the display at chiller local control panel.
[1.4] (SOE) IF no display is evident, REQUEST Maintenance troubleshoot chiller loss of power.
[1.5] (SOE) IF power to the chiller is available, CONTACT Refrigerated Equipment Services for additional troubleshooting.

Possible Causes:
1. Circuit breaker MDP-3-4 (45B-EVU-2B) open/tripped.
3. Control fuse blown.

References:
Drawings: H-2-89325, H-2-89312
Documents: None