

	<h2 style="margin: 0;">DESIGN DOCUMENT</h2> <h2 style="margin: 0;">CHANGE NOTICE</h2>	<b>INITIATING DOC.</b> TYPE: CR NO. 98049				
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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"><b>REV.</b> 14</td> <td style="width: 50%; padding: 2px;"><b>SEQ. NO.</b> 01</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;"><b>PAGE 1 OF 3</b></td> </tr> </table>	<b>REV.</b> 14	<b>SEQ. NO.</b> 01	<b>PAGE 1 OF 3</b>	
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<b>OTHER DOCUMENTS AFFECTED BY THIS CHANGE:</b> NONE						
<b>OTHER DDCN'S REQUIRED TO IMPLEMENT CHANGE:</b> NONE		DigsigCert 1.75 3.49				
<b>REASON FOR CHANGE:</b> AP 05-010 Document Correction as identified by CR 98049. Reference to GDHS0011A deleted consistent with E-1F9915, E-1F9443, other sections of E-1F9910, and OFN RP-017 per CP 13800.						
DigsigOrg 4.5 <b>PREPARED BY:</b> <u><i>William J. Bick</i></u> <b>DATE:</b> <u>1/31/17</u> Verifier Qualification will be to the same requirement as the parent document DigsigVer 4.5		RPE Certification For ASME Section III design specifications, refer to AP 05-004 for qualification requirements				
<b>VERIFIED BY:</b> <u><i>William M. Hillman</i></u> <b>DATE:</b> <u>1/31/17</u> DigsigApp 4.5 0.5 <b>02/06/2017</b>						
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<b>DESCRIPTION OF CHANGE:</b>  See page 2 and 3.						

Relay #	Description
86XRP7	Train B MDAFP (PAL01B)

The relays identified in the above table are used in OFN RP-017 to isolate the control room from the listed components in the event of a fire in the control room. The lockout relays (LOR) are actuated by operators placing hand switches RPHIS0001, RPHIS0002 and RPHIS0003 in isolate position.

Damage to the relays and/or associated cables due to a fire in area C-10 could prevent operation of the listed equipment. If this occurs, Train A equipment, located in a separate fire area, is available and is unaffected by the fire.

Cable 12RPK09BA provides Class 1E 125 VDC power from NK4201 to panel RP334. Damage to this cable could disrupt power to the TDAFP loads served by panel RP334, which could prevent operation of the TDAFP. Cable 14RPK09NA provides Class 1E 125 VDC power from NK4419 to panel RP335. Damage to this cable could disrupt power to the loads served by panel RP335, which could prevent operation of the associated equipment. The Train A MDAFP is available and is unaffected by the fire.

Based on the above discussion, a fire involving lockout relay panels RP334 and RP335 will not adversely impact PFSSD.

References: XX-E-013, E-15000, E-13AB01, E-13AB01A, E-13AL02B, E-13AL04B, E-13BB24, E-13FC23, E-13RP09, E-13RP11, E-13RP12, E-13RP14, E-13RP15, OFN RP-017

### 5.1.7 ESW Pump Room Ventilation

Hand switch GDHS0011 is an isolation switch used to isolate Train B ESW pump room supply fan control circuit from the control room and manually start the fan. The switch is used in OFN RP-017 when aligning Train B ESW in response to a fire in the control room.

~~Hand switch GDHS0011A is associated with Train B ESW pump room supply damper GDTZ0011A. The switch is used to isolate the damper from the control room and allow it to fail open. The switch is used in OFN RP-017 when aligning Train B ESW in response to a control room fire.~~

Cables 14GDG01BE, 14GDG01BF, 14GDG01BH and 14GDY01BB, associated with the Train B ESW pump room supply fan, is run in area C-10. Damage to these cables, or the associated hand switches, could prevent operation of the supply fan.

Cable 14GDI04BF provides ESW B room temperature from temperature element GDTE0011 to temperature controller GDTC0011. Cable 14GDI04BG provides signals from GDTC0011 to outside air intake damper GDTZ0011A. Cable 14GDI04BH provides signals from GDTC0011 to recirculation damper GDTZ0011B. Damage to these cables could prevent operation of the dampers. Temperature controls for Train A ESW pump room are unaffected by a fire in area C-10.

Cable 14GDY01BB is associated with the automatic start on the Train B ESW pump room supply fan control circuit. Upon start of the Train B ESW pump, the contacts on this circuit close and energize the ARC relay, which closes a contact to start the supply fan. Cable 14GDY01BD is associated with low temperature switch GDTSL0011 that prevents the fan from starting if the room temperature is below a pre-determined set point. Damage to these cables due to a fire could spuriously start the fan or prevent it from starting. In either case, the Train A ESW pump room ventilation system is unaffected by a fire in area C-10.

**5.2.23 Lockout Relay Panel RP335**

Cable 14RPK09NA provides Class 1E 125 VDC power from NK4419 to panel RP335. Damage to this cable could disrupt power to the loads served by panel RP335, which could prevent operation of the associated equipment. The following table identifies the PFSSD equipment powered by this cable.

Panel RP335 PFSSD Relays	
Relay #	Description
86XRP5	Train B MDAFP from CST and ESW Supply Valves (ALHV0034 and ALHV0030)
86XRP6	ESW to TDAFP Supply Valve (ALHV0033)
86XRP7	Train B MDAFP (PAL01B)

As discussed in Section 5.2.4, Train A auxiliary feedwater is available and is unaffected by a fire in area C-17. Therefore, damage to cable 14RPK09NA will have no adverse impact on PFSSD.

Other cables associated with control room lockout relays are run in area C-17. Damage to these cables could prevent operation of associated equipment. Train A equipment, located in a separate fire area, is available and is unaffected by the fire.

References: XX-E-013, E-15000, E-13AL01B, E-13AL02B, E-13AL04B, E-13RP09, E-13RP15, E-093-00095, E-093-00096, E-1F9202, E-1F9204

**5.2.24 Miscellaneous Control Room Panels**

Cables 14RPY09BA and 14RPY09CA provide 120 VAC power to control room panels RP053BA, RP053BB and RP053BC. Cable 14RPY09GA provides 120 VAC power to panel RP147B. Cable 14RPY10BA provides 120 VAC power to panel RP068. The following table identifies the PFSSD components that could be affected by a loss of Train B 120 VAC power to these panels.

Cable	Power Supply	Affected Components
14RPY09BA	NN0416	ABHS0004, ABPIC0004A, ALFT0007, ALFY0007B, ALHK0005A, ALHK0007A, ALHK0010A, ALHK0012A, ALHS0007, ALHS0012, ALHV0012, ALPI0024A, EFFI0054, EFFT0054, EFPI0002, EFPT0002, JELSL0021C, JELT0021, RP118B
14RPY09CA	NN0418	ALHY0012, ALPT0039, ALPY0039A, EGFT0129, EGPSL0078, EGPT0078, GDHS0011A, GDTE0011, GDTSL0011, GDTZ0011A
14RPY09GA	NN0404	ABHS0004, ABPIC0004B, ABPT0004, ABPY0004, ALFT0001, ALFY0005B, ALHK0005A, ALHK0005B, ALHK0010A, ALHK0010B, ALHS0005, ALHS0010, ALHV0010, ALHY0010, ALPI0024B, ALPT0024, RP118B
14RPY10BA	NG02ACR136	GDHIS0011A (CGD01B)

Loss of power to these components will not adversely impact PFSSD. Redundant Train A components are unaffected by the fire or the component fails in the desired PFSSD position.