



**GPU Nuclear Corporation**

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Writer's Direct Dial Number:

May 14, 1984

Mr. Dennis M. Crutchfield, Chief  
Operating Reactors Branch #5  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Crutchfield:

Subject: Oyster Creek Nuclear Generating Station  
Docket No. 50-219  
Fire Protection -- Exemption Request

By my letter dated September 16, 1983, GPU Nuclear Corporation requested a schedule exemption from 10 CFR 50.48(c) of the regulations. As a result of discussions held with Mr. James Lombardo of your staff, we are submitting a specific listing of the modifications for which a schedule exemption is requested. This list is to be used in conjunction with Enclosure No. 2 from my September 16, 1983 letter.

Very truly yours, .

Peter B. Fiedler  
Vice President and Director  
Oyster Creek

PBF:SD:dam  
Enclosure

cc: Dr. Thomas E. Murley, Administrator  
Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

NRC Resident Inspector  
Oyster Creek Nuclear Generating Station  
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## Oyster Creek Nuclear Generating Station

### Appendix R Schedule Relief by Fire Area

#### 1.0 INTRODUCTION

GPU Nuclear letter dated September 16, 1983 requested a schedule exemption from having to complete Appendix R modifications in the time frame required by 10 CFR 50.48(c). The letter provided our justification and alternative measures being taken to insure that the granting of the exemptions will not endanger life or property or the common defense and security of the public. This submittal specifically lists those modifications being exempted and should be used in conjunction with the GPU Nuclear submittal of September 16, 1983.

#### 2.0 MODIFICATIONS REQUIRING A SCHEDULE EXEMPTION (BY FIRE AREA/ZONE)

##### 2.1 Fire Zone RB-FZ-1B 95' Elevation

The rerouting of the following Isolation Condenser System circuits in conduit in this zone:

63-303	(ventline valve V-14-5 control)
63-303A	(ventline valve V-14-20 control)
11-769	(makeup line valve V-11-36 power)
21-1901	(makeup line valve V-11-36 control)
11-770	(makeup line valve V-11-34 power)
21-1906	(makeup line valve V-11-34 control)
82-37	(level transmitter LT/IGO6A)

The installation of a new 125V DC MCC.

The installation of a new power feeder circuit to provide power to the new 125V DC MCC from the "B" train battery system.

The rerouting in conduit of the power, control and indication circuits 62-22, 154, 63-617, 618, 619, 281 and 285 to "B" train steam and condensate line valves V-14-33 and 35.

The rerouting of Main Steam Isolation drain valves V-1-110 and 111, power and control circuits 62-51, 52, 395 and 396 in conduit.

##### 2.2 Fire Zone RB-FZ-1C 75' Elevation

Isolation Condenser System "B" train valve V-14-32, to be powered from a new "B" train MCC located in RB-FZ-6B.

The rerouting of Isolation Condenser System valve V-14-32, power and indication circuits for 12-404 and 22-265, within this zone in conduit.

Isolation Condenser System "A" train valve V-14-31, to be powered from MCC DC-2, not DC-1.

The rerouting of Isolation Condenser System valve V-14-31, power and control circuits for 62-21, 63-280 and 63-284, within this zone in conduit.

The rerouting of circuits 62-22, 63-281, 63-285 and 63-619 in conduit within this fire zone to support to repowering of V-14-33.

Isolation Condenser System "A" train valve V-14-34, to be powered from MCC DC-2, not DC-1.

Isolation Condenser System "B" train valve V-14-35, to be powered from the new 125V DC MCC located in RB-FZ-1B, not DC-2.

The rerouting of power and control circuits 62-19, 154 and 63-282, 278, 617 and 618 within this zone.

The rerouting of the following Isolation Condenser System circuits in conduit:

63-303	(ventline valve V-14-5 control)
63-303A	(ventline valve V-14-20 control)
11-769	(makeup line valve V-11-36 power)
21-1901	(makeup line valve V-11-35 control)
11-770	(makeup line valve V-11-34 power)
21-1906	(makeup line valve V-11-34 control)
82-37	(level transmitter LT/IGO6A)

The routing in conduit of the new 125V DC Power Feeder Circuit for the new MCC located in RB-FZ-1B.

The rerouting of the Main Steam Isolation drain valves V-1-110 and 111, power and control circuits 62-51, 52, 395 and 396, in conduit.

### 2.3 Fire Zone RB-FZ-1D 51' Elevation

The rerouting of Isolation Condenser System "B" train steamline valve V-14-32, power, control and indication circuits 12-404, 22-622 and 625, in conduit and protected with a one-hour fire barrier.

The rerouting of Isolation Condenser System "B" train steamline valve V-14-33, control circuits 63-281 and 617, in conduit and protected with a one-hour fire barrier.

The rerouting of Isolation Condenser System "A" train ventline valves V-14-1, 5, 19 and 20, circuits 63-303, 303A, 459 and 459A in conduit and protected with a one-hour fire barrier.

The rerouting of Isolation Condenser System "A" and "B" train makeup line valves V-11-36 and 34, power and control circuits 11-769 and 21-1901, 11-770 and 21-1906, in conduit and protected with a one-hour fire barrier.

The rerouting of Isolation Condenser System "A" train level transmitter LT/IGO6A and B, circuit 82-37 and 38, in conduit and protected with a one-hour fire barrier.

The rerouting of Isolation Condenser System condensate valve V-14-37, power, control and indication circuits 12-342, 22-392 and 22-404, in conduit and protected with a one-hour fire barrier.

The rerouting of the following Isolation Condenser System circuits to outside of this fire zone:

62-21	(steamline valve V-14-31 power)
63-284	(steamline valve V-14-31 control)
62-22	(steamline valve V-14-33 power)
63-285	(steamline valve V-14-33 control)
62-19	(condensate valve V-14-34 power)
63-282	(condensate valve V-14-34 power)

The rerouting of the following Isolation Condenser System circuits in conduit and protected with a one-hour fire barrier:

63-280	(steamline valve V-14-31 control)
63-278	(condensate valve V-14-34 control)

The rerouting of ADS System relief valve control and indication circuits 82-275, 276, 278, 273, 274, 277, 311, 325, 537 and 538, in conduit and protected with a one-hour fire barrier.

The rerouting of CRD pump NCO8B control circuit 22-104, in conduit.

The installation of a one-hour fire barrier on "B" train Reactor Wide Range Fuel Zone Level circuits 82-592-2, 593-2, 594, 597 and 598.

The installation of a one-hour fire barrier around Reactor Wide Range Fuel Zone Level instruments PT-56, dpt-6, 7 and TE-59.

The rerouting of Neutron Monitoring - IRM circuits 21-921 and 910, in conduit and protected with a one-hour fire barrier.

The rerouting of Reactor Building Closed Cooling Water (RBCCW) pump 1-2, power circuit 12-60, in conduit and protected with a one-hour fire barrier.

The installation of a partial fire barrier between RBCCW pumps 1 1 and 1-2.

The routing into this zone of Drywell Cooling Units RF-1-4 and 1-5 power and control circuits 12-73, 74, 22-413, 414, 415 and 416, in conduit.



The routing into this zone of RBCCW valves to drywell cooling units V-5-147, 148, 166, and 167, power and control circuits 12-445, 446, 443, 646 (647), 22-768, 770, 769, 771, 393, 395, 1168 and 1169, in conduit and protected with a one-hour fire barrier.

The routing in conduit of the new 125V DC Power Feeder Circuit for the new MCC located in RB-FZ-1B.

The rerouting of Main Steam Isolation drain valves V-1-110 and 111, power and control circuits 62-51, 52, 395 and 396, in conduit.

#### 2.4 Fire Zone RB-FZ-1E 23' Elevation

The installation of a one-hour fire barrier on Scram Discharge Volume Level Switch RDO8E and its associated circuit 71-69.

The installation of a one-hour fire barrier on CRD Hydraulic instrumentation DPIS/RD39, PI/PT-RD18, FT/FI-RD15, dpt/RDO5, RDO8A and PS-RD24.

The rerouting of the following CRD Hydraulic System circuits, in conduit and protected with a one-hour fire barrier:

21-234	(RDO8A Alarm)
71-382	(dPIS/RD-39 Alarm)
71-383	(PS/RD24 Alarm)
82-94	(PI/PT-RD18 Instrument)
82-96	(FT/FI-RD15 Instrument)
82-98	(dPI/RD29 Instrument)
82-421	(PI/PT-RD18 Instrument)
82-423	(FT/FI-RD15 Instrument)
82-426	(dPI/RDO5 Instrument)

The changing of Isolation Condenser System "B" train valve V-14-37 power source from MCC 1AB2 to a new MCC located in FA-6B.

The rerouting of Isolation Condenser System valve V-14-37, power and control circuits 12-342 and 22-392, in conduit and protected with a one-hour fire barrier.

The installation of a one-hour fire barrier to penetration No. 18.

The rerouting of Isolation Condenser System valve V-14-37, control circuit 22-404, to outside this zone.

The rerouting of the following Isolation Condenser System circuits in conduit:

11-769	(Makeup Line Valve V-11-36 power)
21-1901	(Makeup Line Valve V-11-36, control)
63-280	(Steamline Valve V-14-31 control)
63-278	(Condensate Line Valve V-14-34 control)
63-303	(Ventline Valve V-14-5 control)
63-303A	(Ventline Valve V-14-20 control)
82-37	(Level Transmitter LT/IGO6A)

The rerouting of the following Isolation Condenser System circuits out of this fire zone:

12-404	(Steamline Valve V-14-32 power)
22-622	(Steamline Valve V-14-32 control)
22-625	(Steamline Valve V-14-32 indication)
62-19	(Condensate Valve V-14-34 power)
62-21	(Steamline Valve V-14-31 power)
62-22	(Steamline Valve V-14-33 power)
63-281	(Steamline Valve V-14-33 indication)
63-284	(Steamline Valve V-14-31 control)
63-285	(Steamline Valve V-14-33 control)
63-617	(Condensate Valve V-14-35 control)

The rerouting of ADS System relief valve power and control circuits 63-537, 538, 539, 540, 595, 82-275, 277, 311 and 537, in conduit and protected with a one-hour fire barrier.

The installation of a one-hour fire barrier for penetration Nos. 8, 10, 13, 18, 19 and 44.

The installation of a one-hour fire barrier for Reactor Wide Range Fuel Zone Level indication circuit 82-596 and associated penetration No. 57.

The installation of a one-hour fire barrier for the following Neutron Monitoring System - IRM circuits:

84-127	(RHO2G Detector Circuit)
84-135	(RHO3G Pre-Amp Circuit)
84-280	(RHO3G Pre-Amp Circuit)
84-288	(RHO3G Pre-Amp Circuit)

The installation of a one-hour fire barrier for penetration no. 22 and IRM detectors RHO2G and RHO3G.

The rerouting of IRM motor drive No. 7 power and control circuit 11-303 and 21-76, in conduit and protected with a one-hour barrier.

The installation of a one-hour fire barrier for penetration no. 54.

The rerouting out of this zone of IRM motor drive circuit 21-921.

The changing of the power source for RBCCW to DW Cooling Isolation Valves V-5-147, 148, 166 and 167, from MCC 1B21A and B to the new MCC in FA-6B.

The rerouting RBCCW to DW Cooling Isolation Valves V-5-147, 148, 166, and 167, power and control circuits, in conduit and protected with a one-hour fire barrier.

The installation of a one-hour fire barrier for penetration nos. 11 and 19.

The installation of a one-hour fire barrier for Main Steam Outboard Isolation Valve circuit 63-245 and associated penetration no. 12.

The rerouting out of this zone of Main Steam Drain Line outboard valves V-1-110 and 111, power and control circuits 62-51, 52, 63-395 and 396.

The rerouting of Drywell Cooling Units RF-1-4 and 1-5, power and control circuits 12-73, 74, 22-415 and 416, in conduit and protected with a one-hour fire barrier.

The rerouting of RBCCW valves V-5-147, 148, 166 and 167 power and control circuits 12-443, 445, 446, 646 (647), 22-395, 770, 771 and 1168, in conduit and protected with a one-hour fire barrier.

The rerouting out of this zone of RBCCW valves V-5-147, 148, 166 and 167, control circuits 22-393, 768 and 769 conduit.

The rerouting out of this zone of RBCCW pump 1-2 power circuit 12-60.

#### 2.5 Fire Zone RB-FZ-1F -19' Elevation

The rerouting of CRD Feed Pump NCO8A and B, power circuits 12-13 and 12-17, in conduit.

#### 2.6 Fire Area TB-FA-3A 4160V Emergency Switchgear - 1C

The rerouting out of this fire area of Drywell Cooling Units RF-1-4 and 1-5 interlock circuits 22-839 and 1025.

#### 2.7 Fire Zone TB-FZ-11B Turbine Lube Oil Storage, Pumping and Purification Area

The rerouting of Drywell Cooling Units RF-1-4 and 1-5 interlock circuits 22-839 and 1025, in conduit and protected with a three-hour fire barrier.

The installation of a three-hour fire barrier for Service Water Pump 1-2, control circuit 22-87.

#### 2.8 Fire Zone TB-FZ-11C Switchgear Room, West End of Turbine Building on Mezzanine Level

The rerouting of Drywell Cooling Units RF-1-4 and 1-5 interlock circuits 22-839 and 1025, in conduit and protected with a three-hour fire barrier.

The installation of a three-hour fire barrier for Service Water Pump 1-2, control circuit 22-87.

## 2.9 Fire Zone TB-FZ-11D Basement Floor, South End

The rerouting of "B" train 4160V Emergency Switchgear 1D, EDG2 and DG 2 Switchgear operation, control and indication, and breaker control circuits 24-28, 32, 86-55, 56, 57, 58, 60, 61, 62, 63 and 65, in conduit and provided with a one-hour fire barrier.

The installation of a one-hour fire barrier for 4160V ES Switchgear 1D, USS 1B2 and 1B3, power feeder circuits 86-71, 14-25 and 28.

The rerouting of Drywell Cooling Units RF-1-4 and 1-5 interlock circuits 22-839 and 1025, in conduit and protected with a one-hour fire barrier.

The rerouting of Service Water Pump 1-2 control circuit 22-87, in conduit and protected with a one-hour fire barrier.

## 2.10 Fire Zone TB-FZ-11E Condenser Bay

The rerouting of Drywell Cooling Units RF-1-4 and 1-5 interlock circuits 22-839 and 1025, in conduit and protected with a one-hour fire barrier.

The rerouting of Service Water Pump 1-2 control circuit 22-87, in conduit and protected with a one-hour fire barrier.

## 2.11 Fire Area OB-FA-6 480V Switchgear Room

The modification to divide OB-FA-6 into two fire areas designated as OB-FA-6A and 6B.

The installation of a new MCC for 480V and 120VAC service, a new relay panel for EMRV operation, and a new 125VDC power panel, in OB-FA-6B.

The rerouting in conduit of the following electrical system circuits out of OB-FA-6A to be totally within OB-FA-6B.

12-16	(Power feeder to MCC 1B21)
12-417	(Power feeder to Battery Chargers MG Set B)
12-447	(Power feeder to Battery Chargers MG Set A)
12-449	(Power to Auto Transfer Switch PS-1)
12-452	(Power to MG Set 1-2 Control Cab)
62-94	(125V DC to USS 1B2)

The installation of a one-hour fire barrier on the "A" train power feeder circuit from the 125V DC DCC which is routing through OB-FA-6B.

The installation of the following new circuits in OB-FA-6B:

12-XXX	(480V AC Power Feeder Circuit from USS 1B2 to a new MCC)
62-XXX	(125V DC Power Feeder to a new relay panel)
62-XXX	(125V DC Power Feeder to a new power panel)



The installation of a one-hour fire barrier on the following "A" train electrical power circuits:

12-600	(Vital MCC 1A2 to Battery Charger C1)
12-601	(Vital MCC 1A2 to Battery Charger C2)
62-153	(125V DC Dist CTR C to MCC-DC-2)
62-158	(125V DC Dist CTR C to USS 1A2)
62-161	(125V DC Dist CTR C to Panel DC-F)
62-172	(This conduit contains the "A" train Isolation Condenser circuit 62-169)
62-173	(This conduit contains the "A" train Isolation Condenser circuit 62-169)

The rerouting of "A" train CRD pump NCO8A, power circuit 12-13, in conduit in OB-FA-6A.

The rerouting of "B" train CRD pump MCO8B, power and control circuits 12-17 and 22-104, in conduit in OB-FA-6B.

The rerouting of "B" train Isolation Condenser steamline valve V-14-32, power and control circuits 12-404, 22-622 and 625, in conduit for the new MCC contained in OB-FA-6B.

The rerouting to outside this fire area of "B" train Isolation Condenser valve V-14-35, control and indication circuit 63-617.

The rerouting of "B" train Isolation Condenser valve V-14-37 power indication and control circuits 12-342, 22-392 and 404, from the new MCC located in OB-FA-6B in conduit.

The rerouting in conduit of Isolation Condenser valve V-11-34, power feeder circuit 11-770, from the new 120 V AC Instrument Panel located in the new OB-FA-6B.

The rerouting of Isolation Condenser valve V-11-36, power feeder circuit 11-769, from existing instrument panel 4A in OB-FA-6A.

The rerouting of Isolation Condenser valve V-11-36, control circuit 21-1901, in conduit in OB-FA-6A.

The rerouting of Isolation Condenser valves V-14-5 and 20, control circuits 63-303 and 303A, into OB-FA-6A.

The routing of Isolation Condenser steamline valve V-14-31, control circuit 63-280 into OB-FA-6A.

The routing of Level Transmitter circuit 82-37, into OB-FA-6A.

The rerouting in conduit of Drywell Cooling Units RF-1-4 and 1-5 power, control, and interlock circuits 12-73, 74, 22-413, 414, 415, 416, 839 and 1025, in fire area OB-FA-6B.

The rerouting in conduit of 'B' train RBCCW pump 1-2, power and control circuits 12-60 and 22-99, in fire area OB-FA-6B.

The rerouting in conduit of RBCCW valves V-5-147, 148, 166 and 167, power and control circuits 12-445, 446, 443, 646 (647), 22-768, 770, 769, 771, 393, 395, 1168 and 1169, to the new MCC located in OB-FA-6B and protected with a one-hour fire barrier.

The rerouting of Neutron Monitoring circuits 11-303, 21-76 and 921, in conduit within OB-FA-6B.

#### 2.12 Fire Zone OB-FZ-8A MG Set Room

The installation for a one-hour fire barrier for the SDV level switch RDO8E, circuit 71-69.

The rerouting in conduit and protecting with a one-hour fire barrier the following CRD Hydraulic Instrument circuits:

71-382	(dPIS/RD39 Alarm)
71-383	(PS/RD24 Alarm)
82-94	(PI/PT-RD18 Instrument)
82-96	(FT/FI-RD15 Instrument)
82-98	(dPI/RD29 Instrument)

The rerouting out of this fire zone of the following Isolation Condenser valve circuits:

63-280	(Steamline Valve V-14-31 Control)
63-281	(Steamline Valve V-14-33 Indication)
63-278	(Condensate Valve V-14-34 Control)

The rerouting of ADS relief valve indication circuits 63-537, 538, 539, 540 and 595, in conduit and protected with a one-hour fire barrier.

The installation of a one-hour fire barrier on Neutron Monitoring IRM instrument RHO3G, pre-amp circuits 84-135, 280 and 288.

#### 2.13 Fire Zone OB-FZ-8C Battery Room Tunnel and Electrical Tray Room - 35' Elevation

The installation of a one-hour fire barrier on Scram Discharge Volume level switch RDO8E, circuit 71-69.

The rerouting in conduit and protecting with a one-hour fire barrier the following CRD Hydraulic System instrument and alarm circuits:

71-382	(dPIS/RD39 Alarm)
71-383	(PS/RD24 Alarm)
82-94	(PI/PT-RD18 Instrument)
82-96	(FT/FI-RD15 Instrument)
82-98	(dPI/RD29 Instrument)

The rerouting out of this zone of CRD Pump "B" control circuit 22-104.

The rerouting out of this fire zone of the following Isolation Condenser System valve circuits:

11-769	(Makeup Line Valve V-11-36 Power)
11-770	(Makeup Line Valve V-11-34 Power)
22-404	(Condensate Valve V-14-37 Control)
22-622	(Steamline Valve V-14-32 Control)
63-281	(Steamline Valve V-14-33 Indication)
63-278	(Condensate Valve V-14-34 Indication)

The rerouting into this fire zone of the following Isolation Condenser System valve circuits:

21-1901	(Makeup Line Valve V-11-36 Control)
63-303	(Ventline Valve V-14-5 Control)
63-303A	(Ventline Valve V-14-20 Control)
63-280	(Steamline Valve V-14-31 Indication)
82-37	(Isolation Condenser "A" Level Transmitter Indication)

The rerouting of ADS System relief valve indication circuits 63-537, 538, 539, 595 and 540, in conduit and protected with a one-hour fire barrier.

The installation of a one-hour fire barrier on Neutron Monitoring IRM instrument RHO3G, pre-amp circuits 84-135, 280 and 288.

The rerouting in conduit of the following power circuits:

12-417	(Power Feeder to Battery Charger MG Set B)
62-XXX	(Power Feeder to new 125V DC MCC in RB-FZ-1B)
67-XXX	(Power Feeder to new 125V DC Relay Panel in OB-FA-6B)
62-XXX	(Power Feeder to new 125V DC Power Panel in OB-FA-6B)
62-94	(125V DC Dist. Ctr. B to USS 1B2)

The rerouting out of this zone of the following power circuits:

12-447	(Power Feeder to Battery Charger MG Set B)
12-449	(Power Feeder to Auto Transfer Switch, PS-1)
12-452	(Power Feeder to MG Set 1-2 Control Cabinet)

The installation of a one-hour fire barrier on MSIV valves NSO3A and B control circuits 21-1533, 1534, 63-242 and 246.

The routing in conduit of the following Main Steam Line circuits:

62-51	(MS Drain Line Valve V-1-110 Power)
62-52	(MS Drain Line Valve V-1-111 Power)
62-395	(MS Drain Line Valve V-1-110 Control)
62-396	(MS Drain Line Valve V-1-111 Control)

The rerouting out of this fire zone of RBCCW valves V-5-147, 148, 166 and 167 control circuits 768, 769, 393 and 1169.

The rerouting out of this fire zone of RBCCW pump 1-2, control circuit 22-99.

The rerouting out of this fire zone of Drywell Cooling Units RF-1-4 and RF-1-5 fan control and interlock circuits 22-413, 414, 22-839 and 1025.

#### 2.14 Fire Area OB-FA-9 Office Building

The rerouting of ADS System relief valves NR108A and C control circuits 82-274 and 84-278, in conduit, protected with a one-hour fire barrier and automatic fire detection.

The rerouting of the following power circuits:

12-417	(Power Feeder to Battery Charger MG Set B)
62-XXX	(Power Feeder to new 125V DC MCC in RB-FZ-1B)
62-XXX	(Power Feeder to new 125V DC Relay Panel in OB-FA-6B)
62-XXX	(Power Feeder to new 125V DC Power Panel in OB-FA-6B)
62-94	(125V DC Dist Ctr B to USS 1B2)

The routing of the following Main Steam Drain Line Isolation Valves:

62-51	(MS Drain Line Valve V-1-110 Power)
62-52	(MS Drain Line Valve V-1-111 Power)
62-395	(MS Drain Line Valve V-1-110 Control)
62-396	(MS Drain Line Valve V-1-111 Control)

#### 2.15 Fire Zone OB-FZ-10A Monitoring and Change Room

The rerouting of CRD pump NC08A, control circuit 22-104.

The rerouting out of this fire zone of Isolation Condenser "A" train ventline valves V-14-5 and 20 control circuits 63-303 and 303A.

The rerouting of Isolation Condenser "B" train makeup line valve V-11-34, power and control circuits 11-770, in conduit.

The rerouting out of this fire zone of Isolation Condenser "A" train makeup line valve V-11-36, power and control circuits 11-769 and 21-1901.

The rerouting to out of this fire zone of Isolation Condenser "A" train level transmitter LT/IG06A circuit 82-37.



The rerouting in conduit of the following Isolation Condenser System circuits:

12-342	(Condensate Valve V-14-37 Power)
12-404	(Steamline Valve V-14-32 Power)
22-392	(Condensate Valve V-14-37 Indication)
22-404	(Condensate Valve V-14-37 Control)
22-622	(Steamline Valve V-14-32 Control)
22-625	(Steamline Valve V-14-32 Indication)

The rerouting of ADS System relief valves NR108A, C, D, and E, control circuits 82-276, 278, 325 and 274, in conduit and protected with a one-hour fire barrier.

The installation of a one-hour fire barrier on ADS System relief valve NR108E control circuit 82-538.

The installation of a one-hour fire barrier on RX Wide Range Fuel Zone Level circuits 82-592-2, 593-2, 594, 597 and 598.

The rerouting of a Neutron Monitoring - IRM circuits 21-921 and 910 in conduit and protected with a one-hour fire barrier.

The routing in this fire zone of the following electrical system and containment system circuits:

12-60	(RBCCW Pump 1-2 power)
12-73	(DW Cooling Unit RF-1-4 Power)
12-74	(DW Cooling Unit RF-1-5 Power)
12-417	(Power to Battery Charger MG Set B)
*12-443	(RBCCW Valve V-5-166 Power)
*12-445	(RBCCW Valve V-5-147 Power)
*12-446	(RBCCW Valve V-5-148 Power)
12-447	(Power to Battery Charger MG Set B)
12-449	(Power to Auto Transfer Switch PS-1)
12-452	(Power to MG Set 1-2 Control Cabinet)
*12-646(647)	(RBCCW Valve V-5-167 Power)
22-99	(RBCCW Pump 1-2 Control)
*22-393	(RBCCW Valve V-5-166 Control)
*22-395	(RBCCW Valve V-5-166 Control)
22-413	(DW Cooling Unit RF-1-4 Control)
22-414	(DW Cooling Unit RF-1-5 Control)
22-415	(DW Cooling Unit RF-1-4 Control)
22-416	(DW Cooling Unit RF-1-5 Control)
*22-768	(RBCCW Valve V-5-147 Control)
*22-769	(RBCCW Valve V-5-148 Control)
*22-770	(RBCCW Valve V-5-147 Control)
*22-771	(RBCCW Valve V-5-148 Control)
*22-1168	(RBCCW Valve V-5-167 Control)
*22-1169	(RBCCW Valve V-5-167 Control)
62-94	(Power Feeder 125VDC Dist. Ctr. B to USS 1B2)

62-XXX (125V DC Power Feed to new relay panel)  
62-XXX (125V DC Power Feed to new power panel)

\*These circuits will be protected with a one-hour fire barrier.

2.16 Fire Zone OB-FZ-10B Chemical Laboratory, Laundry and Instrument Shop

The rerouting of RBCCW valves V-5-147, 148, 166 and 167, power and control circuits 12-443, 445, 446, 646 (647), 22-393, 395, 768, 769, 770, 771, 1168 and 1169, in conduit and protected with a one-hour fire barrier.

The rerouting in conduit of the following electrical system and containment system circuits:

12-60	(RBCCW Pump 1-2 Power)
12-73	(DW Cooling Unit RF-1-4 Power)
12-74	(DW Cooling Unit RF-1-5 Power)
12-417	(Power to Battery Charger MG Set B)
12-449	(Power to Auto Transfer Switch PS-1)
12-452	(Power to MG Set 1-2 Control Cabinet)
22-99	(RBCCW Pump 1-2 Control)
22-413	(DW Cooling Unit RF-1-4 Control)
22-414	(DW Cooling Unit RF-1-5 Control)
22-415	(DW Cooling Unit RF-1-4 Control)
22-416	(DW Cooling Unit RF-1-5 Control)
62-94	(Power Feeder 125V DC Dist. Ctr. B to MSS 1B2)
11-770	(Makeup Line Valve V-11-34 Power)
12-342	(Condensate Valve V-14-37 Power)
12-404	(Steamline Valve V-14-32 Power)
22-104	(CRD Pump NG08B Control)
22-392	(Condensate Valve V-14-37 Indication)
22-404	(Condensate Valve V-14-37 Control)
22-622	(Steamline Valve V-14-32 Control)
22-625	(Steamline Valve V-14-32 Indication)
62-XXX	(125V DC Power Feed to new relay panel)
62-XXX	(125V DC Power Feed to new power panel)
12-447	(Power to Battery Charger MG Set A)
21-921	(Neutron Monitoring Channel 17)

2.17 Fire Area OB-FA-22 Upper Cable Spreading and Mechanical Room

The installation of an automatic suppression and detection system.

The rerouting of RBCCW valves V-5-147, 148, 166 and 167 control circuits 22-393, 768, 679 and 1169, in conduit and protected with a one-hour fire barrier.

The rerouting of the following "B" train circuits:

21-1906	(Makeup Line Valve V-11-34 Control)
22-99	(RBCCW Pump 1-2 Control)
22-104	(CRD Pump NC08B Control)

22-404	(Condensate Valve V-14-37 Control)
22-413	(DW Cooling Unit RF-1-4 Control)
22-414	(DW Cooling Unit RF-1-5 Control)
22-622	(Steamline Valve V-14-32 Control)
63-281	(Steamline Valve V-14-33 Indication)
63-617	(Condensate Valve V-14-35 Control)
21-921	(Neutron Monitoring Channel 17)

#### 2.18 Fire Area CW-FA-14 Circulating Water Intake

The installation of a one-hour fire barrier on AC and DC power circuits 14-28 and 62-93, from the underground cable ducts to the unit substation 1B3.

The installation of a partial barrier between the USS 1A3 and 1B3 to create a dike for each individual substation to prevent a transformer oil fire from spreading from one unit substation to another.

The installation of a one-hour fire barrier on Service Water pump 1-2, power and control circuits 12-78 and 22-87.

#### 2.19 Fire Area DG-FA-15 No. 1 Emergency Diesel Generator Room

The installation of an external oil supply to each diesel generator day tank.