

**SECTION 15 USAR DRAWINGS****TABLE OF CONTENTS**

The plant drawings included in this section are presented as a compliment to the textual descriptions in other sections of the USAR. As such, they are intended to enhance the reader's understanding of the facility's design basis, safety analyses, and operation.

The plant drawings in the USAR reflect the drawing revisions current at the time the USAR was published and may have been superseded. Note that all site work activities must be conducted using controlled drawings. The reader is directed to the MNGP controlled drawing system for the most recent revisions of plant drawings. The enclosed P&IDs are not "simplified." That is, they are the latest revisions of detailed plant design drawings. As such, they depict more detail than is required to understand the text of the USAR.

To enhance the reader's understanding, valve positions (except solenoid valves) shown on the enclosed P&IDs usually reflect the normal position during full power plant operation. (Solenoid valves are drawn showing the de-energized or shelf state.) However, plant operating procedures, not P&IDs, are used to control plant equipment. Consequently, the indicated positions of valves, dampers, etc. are not intended to depict any design or operating requirement and may differ from the actual position.

<u>Drawing Number</u>	<u>Drawing Title</u>	<u>M-No.</u>
NX-7834-2-2	I.E.D.Reactor Protection System	
NX-7865-7-1	Plant Protection Block Diagram RX Protection System	
NX-7865-7-2	Plant Protection Block Diagram RX Protection System	
NX-7993-1-1	Process Radiation Monitoring System	
NH-36032	P&ID - Legend	M-100
NH-36034	Turbine & Extraction Steam P&ID, Sheet 1 of 2	M-103
NH-36035	Turbine & Extraction Steam P&ID, Sheet 2 of 2	M-104
NH-36035-2	P&ID Steam Jet Air Ejectors	M-104-1
NH-36036	P&ID Condensate and Feedwater	M-105
NH-36037	P&ID Condensate and Feedwater	M-106
NH-36038	P&ID Condensate Demineralization System Sheet 1 of 2	M-107
NH-36038-2	P&ID Condensate Demineralizer System Sheet 2 of 2	M-107
NH-36041	P&ID Service Water System	M-110
NH-36041-2	Service Water System P&ID, Sheet 2 of 2	M-110-2
NH-36042	P&ID Reactor Bldg Cooling Water System	M-111
NH-36042-2	P&ID Reactor Bldg Cooling Water System	M-111-1
NH-36043	P&ID-Open (Dirty) Radwaste Sump System	M-137
NH-36044	P&ID-Closed (Clean) Radwaste Sump System	M-138
NH-36045	P&ID-Clean Radwaste System	M-139
NH-36046	P&ID-Dirty Radwaste System, Sheet 1 of 2	M-140
NH-36046-2	Dirty Radwaste System, Sheet 2 of 2	M-140

**SECTION 15 USAR DRAWINGS**

<u>Drawing Number</u>	<u>Drawing Title</u>	<u>M-No.</u>
NH-36047-1	Radwaste Solids Handling System P&ID	M-141
NH-36047-2	P&ID-Radwaste Solids Handling System	M-141-2
NH-36049-1	P&ID-Compressed Air System	M-131
NH-36049-2	P&ID-Instrument Air System	M-131
NH-36049-3	P&ID-Instrument Air - Turbine Building	M-131
NH-36049-4	P&ID-Service Air System	M-131
NH-36049-11	P&ID-Instrument Air - Turbine Building	M-131
NH-36049-12	P&ID-Instrument Air - Reactor Building & Drywell	M-131
NH-36049-14	P&ID Instrument Air - Reactor Building	M-131
NH-36049-15	P&ID Air Supply to Outboard MSIVs	M-131
@ NF-36054	Equipment Location - Reactor Bldg - Plan at El 896 ft-3 in., 923 ft-0 in.	M-1
@ NF-36055	Equipment Location-Reactor Bldg Plan at El. 935 ft-0 in. & Office Bldg Plan at El. 939 ft-0 in.	M-2
@ NF-36055-1	Equipment Locations - Office Bldg Plan at El. 928 ft-0 in.	
@ NF-36056	Equipment Location-Reactor Bldg Plan at El. 962 ft-6 in. & Office Bldg Plan at El. 965 ft-0 in.	M-3
@ NF-36056-1	Equipment Location - Office Bldg Plan at El. 951 ft-0 in.	
@ NF-36057	Equipment Location - Reactor Bldg Plan at El. 986 ft-6 in., and 1001 ft-2 in.	M-4
@ NF-36058	Equipment Location - Reactor Bldg Plan at El. 1027 ft-8 in.	M-5
@ NF-36059	Equipment Location - Turbine Bldg Plan at El. 908 ft-0 in. & 911 ft-0 in.	M-6
@ NF-36060	Equipment Location - Turbine Bldg Plan at El. 931 ft-0 in.	M-7
@ NF-36061	Equipment Location - Turbine Bldg Operating Floor Plan at El. 951 ft-0 in.	M-8
@ NF-36062	Equipment Location - Reactor, Turb and RW Bldgs, Section A-A	M-9
@ NF-36063	Equipment Location - Reactor Bldg, Section B-B	M-10
NH-36159	P&ID-Offgas System	M-142
NH-36159-2	Off-Gas Stack Gas Monitor CH. 'A'	M-142
NF-36175	Single Line Diagram - Station Connections	E-1
NH-36241	Nuclear Boiler System - Steam Supply, P&ID	M-115
NH-36242	P&ID-Vessel Instrumentation - Nuclear Boiler System	M-116
NH-36242-1	P&ID Jet Pump Instrumentation - Nuclear Boiler System	M-116-1
NH-36242-2	P&ID Reference Leg Backfill System - Nuclear Boiler System	M-116-2

**SECTION 15 USAR DRAWINGS**

<u>Drawing Number</u>	<u>Drawing Title</u>	<u>M-No.</u>
NH-36243	P&ID-Recirculation Loops - Nuclear Boiler System	M-117
NH-36243-1	P&ID-Recirc. Loops, Pumps and Motors - Nuclear Boiler System	M-117
NH-36244	Control Rod Hydraulic System P&ID	M-118
NH-36245	P&ID-Control Rod Hydraulic System	M-119
NH-36246	P&ID-Residual Heat Removal System	M-120
NH-36247	P&ID-Residual Heat Removal System	M-121
NH-36248	P&ID-Core Spray System	M-122
NH-36249	P&ID-(Steam Side) High Pressure Coolant Injection Sys	M-123
NH-36250	P&ID-(Water Side) High Pressure Coolant Injection System	M-124
NH-36251	P&ID-RCIC (Steam Side)	M-125
NH-36252	P&ID-RCIC (Water Side)	M-126
NH-36253	P&ID-Standby Liquid Control System	M-127
NH-36254	P&ID-Reactor Water Cleanup System	M-128
NH-36255	Unit 1 Reactor Water Clean Up Filter/Demineralizer System P&ID	M-129
NH-36256	P&ID Fuel Pool Cooling and Cleanup System	M-135
NH-36257	Fuel Pool Filter/Demin System P&ID	M-136
NH-36258	P&ID Primary Containment & Atmospheric Control System	M-143
NH-36263	Air Flow Diagram - Turbine Building	M-151
NH-36266	Air Flow Diagram - Radwaste Area	M-154
NH-36489	P&ID Circulating Water System	M-800
NH-36489-2	Circulating Water System P&ID	M-800-1
NH-36516	Fire Protection System Yard Areas	M-810
NE-36640-2	125V DC Distribution Electrical Scheme	E-110-2
NE-36640-3	Schematic Diagrams-125, 250 & 24 Volt DC Systems	E-110-3
NE-36640-4	250V DC Distribution and Panel Schedule D31, D33	E-110-4
NE-36640-4-2	125/250V DC Distribution Cabinet D31 Scheme No. D3	E-110-4B
NE-36640-6	24 VDC Distribution, Scheme D15, D25	E-110-6
NH-36664	P&ID-RHR Service Water & Emergency Service Water Systems	M-112
NH-36665	P&ID Service Water System and Make-Up Intake Structure	M-811
NH-36666	P&ID-Screen Wash, Fire & Chlorination System Intake Structure	M-812

**SECTION 15 USAR DRAWINGS**

<u>Drawing Number</u>	<u>Drawing Title</u>	<u>M-No.</u>
NE-36771-4	Reactor Protection Power System Distribution Panel Y40 & Y50	E-111-4
NH-36881	Standby Gas Treatment Flow Diagram	M-145
NH-46162	P&ID-Primary Containment Nitrogen Control System	M-130
NH-54817-4	P&ID Off-Gas Modification Train 'A' Engineering Flow Diagram-Recombiner Building	
NH-54822-2	P&ID-Off-Gas Modification Engineering Flow Diagram Off-Gas Storage Area	
NH-54823-2	P&ID-Off-Gas Modification Engineering Flow Diagram Compressor Bldg	
NH-54823-3	P&ID-Off-Gas Modification Engineering Flow Diagram Compressor Bldg	
NH-54823-4	P&ID-Off-Gas Modification Engineering Flow Diagram-Compressor Bldg	
NH-91197	P&ID Containment Atmosphere Monitoring System	
NE-93523-3	Schematic Metering & Relaying Diagram 125/250 V DC Dist. Channel 2	E-201-3
NE-93523-4	Schematic Metering & Relaying Diagram 125/250 V DC Dist. Channel 2	E-201-4
NH-94896	P&ID Combustible Gas Control System Div. I (East)	
NH-94897	P&ID Combustible Gas Control System Div. II (West)	
ND-95208	Monticello Property Map	
@ ND-95209	Monticello Main Plant Structures	
NH-119062	Rapid Dewatering System P&ID	
NH-119062-1	Rapid Dewatering System P&ID	
NH-119062-2	Rapid Dewatering System P&ID	
NH-178635	Substation 1 - Line Diagram	