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Docket Nos. 50-321  
50-366

HL-5892

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Edwin I. Hatch Nuclear Plant  
Associated Evaluation Boundary Drawings for the  
Plant Hatch Application for Renewed Operating Licenses

Ladies and Gentlemen:

In accordance with the requirements of 10 CFR §50, §51 and §54, Southern Nuclear Operating Company (SNC) has submitted an application for renewal of the operating licenses for Plant E. I. Hatch, Units 1 and 2. As an aid in the identification and listing of the structures and components subject to an aging management review, boundary drawings were developed for many of the functions determined to be within the scope of the license renewal rule. These drawings were developed using existing piping and instrumentation diagrams (P&IDs) for mechanical systems, and a plant general layout to identify structures and buildings within the scope of the rule. A limited number of electrical boundaries were produced from single-line diagrams.

Seven copies of the boundary drawings are provided in paper format, as well as forty copies in CD-ROM format. These drawings are not part of the Hatch license renewal application, but are provided as information only. A set of instructions to aid in the navigation and use of the boundary drawings is provided in Enclosure 1 of this letter.

Respectfully submitted,

A handwritten signature in black ink that reads "Lewis Sumner". The signature is written in a cursive, flowing style.

H. L. Sumner, Jr.

Enclosures:

1. Navigation Aid For Boundary Drawings
2. Boundary Drawing Indices and Boundary Drawings

cc: See Next Page

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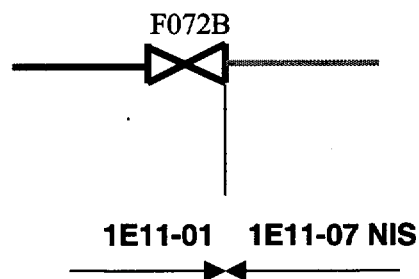
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## License Renewal

### Navigation Aid For Boundary Drawings

1. Equipment, components, piping, etc. shown in bold (red) are in-scope for license renewal for the intended function(s) identified in the function box(s) (red boxes).
2. For mechanical boundary diagrams, components (piping, etc.) shown in gray are **either** in-scope but classified as active components supporting the intended function(s) identified in the function box(s) (red boxes), **or** the equipment, components, and piping, etc. are part of a function that is not in-scope for license renewal.
3. A boundary marker (green) with indicator arrows as shown below indicates the interface boundary between two functions. These boundaries typically occur at the boundaries between components.



4. The "NIS" designation denoted adjacent to a function number means the function is not in-scope. Thus, components supporting the function designated "NIS" are not bold (red) on the drawings.
5. Information regarding the system/structure function identified by a system function no., such as, 1E11-01, can be found in Section 2 of the License Renewal Application.
6. Electrical boundary diagrams depict the inscope portions of the AC and DC electrical distribution systems. The 4160, 600, 208, and 120 VAC busses and the 250 and 125 VDC busses within the scope of license renewal are shown in red.

7. The function boxes (red) on the drawing contain information used to develop the boundary diagram. More than one title box on a boundary drawing indicates the drawing is a composite of multiple stand – alone boundary diagrams. In these boxes (red), the following information is provided:

- Boundary Diagram No. - the stand-alone boundary diagram used to develop the approved license renewal boundary diagram.
- Function No. (s) – the in-scope function(s) that are represented by the boundary diagram.
- Prepared By – the engineer responsible for the preparation of the stand-alone boundary diagram and the date the preparation was completed.
- Reviewed By – the engineer responsible for the review of the stand – alone boundary diagram and the date the review was completed.

## License Renewal Boundary Diagram Index By Boundary No.

[To determine drawing number, delete "L" designator from Boundary Diagram Number]

Boundary Number	Boundary Diagram No.	Title	Vol. No.
Buildings	EL-10173	General Building Site Plan	1
1A70-B01	HL-16062	Nuclear Boiler System P&ID Sh.1	3
1B11-B01	HL-16066	Reactor Recirculation System P&ID	3
1B11-B01	HL-16063	Nuclear Boiler System P&ID Sh.2	3
1B11-G01	HL-16062	Nuclear Boiler System P&ID Sh.1	3
1B21-B01	HL-16330	R.H.R. System P&ID Sh.2	3
1B21-B02	HL-11472	Turb. Gen. Aux Sys Schem IED Control Oil & Fluid Sh. 1	1
1B21-B02	HL-16061	Standby Liquid Control System P&ID	3
1B21-B02	HL-16062	Nuclear Boiler System P&ID Sh.1	3
1B21-B02	HL-16063	Nuclear Boiler System P&ID Sh.2	3
1B21-B02	HL-16066	Reactor Recirculation System P&ID	3
1B21-B02	HL-16145	Nuclear Boiler System P&ID Sh. 3	3
1B21-B02	HL-16188	Reactor Water Clean-up System P&ID Sh. 1	3
1B21-B02	HL-16329	R.H.R. System P&ID Sh. 1	3
1B21-B02	HL-16331	Core Spray System P&ID	3
1B21-B02	HL-16332	HPCI System P&ID Sh. 1	3
1B21-B02	HL-16334	RCIC System P&ID Sh. 1	3
1B21-B02	HL-16568	Reactor Protection System P&ID	3
1B21-B02	HL-26384	Post Accident Reactor Coolant & Containment Atmosphere Sampling Sys. P&ID.	5
1B21-B02	HL-16064	Control Rod Drive System P&ID Sh.1	3
1B31-B02	HL-16066	Reactor Recirculation System P&ID	3
1C11-B01	HL-16064	Control Rod Drive System P&ID Sh.1	3
1C11-B01	HL-16065	Control Rod Drive System P&ID Sh.2	3
1C41-B01	HL-16061	Standby Liquid Control System P&ID	3
1C71-B02	HL-13369 (Sh 1)	Single Line Diagram 120/208V Essential A.C. System	2
1C71-B02	HL-13369 (Sh 2)	Single Line Diagram 120/208V Essential A.C. System	2
1D11-B01	HL-16563	Process Radiation Monitoring System P&ID Sh.1	3
1D11-B02	HL-16566	Process Radiation Monitoring System P&ID Sh.4	3
1D11-B03	HL-16565	Process Radiation Monitoring System P&ID Sh.3	3
1E11-B01	HL-16062	Nuclear Boiler System P&ID Sh.1	3
1E11-B01	HL-16135	Torus Drainage & Purification System P&ID & PFD	3
1E11-B01	HL-16328	Jockey Pump System P&ID and Process Flow Diagram	3
1E11-B01	HL-16329	R.H.R. System P&ID Sh. 1	3
1E11-B01	HL-16330	R.H.R. System P&ID Sh.2	3
1E11-B01	HL-16331	Core Spray System P&ID	3
1E11-B01	HL-16332	HPCI System P&ID Sh. 1	3
1E11-B01	HL-16334	RCIC System P&ID Sh. 1	3
1E11-B01	DL-11004	RHR Service Water P&ID Outside Building	1
1E11-B01	HL-16002	Fuel Pool Cooling System P&ID	3
1E41-B01	HL-16332	HPCI System P&ID Sh. 1	3
1E41-B01	HL-16333	HPCI System P&ID Sh.2	3
1E41-B01	HL-16334	RCIC System P&ID Sh. 1	3

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[To determine drawing number, delete "L" designator from Boundary Diagram Number]

Boundary Number	Boundary Diagram No.	Title	Vol. No.
1E51-B01	HL-16329	R.H.R. System P&ID Sh. 1	3
1E51-B01	HL-16330	R.H.R. System P&ID Sh.2	3
1E51-B01	HL-16334	RCIC System P&ID Sh. 1	3
1E51-B01	HL-16335	RCIC System P&ID Sh. 2	3
1L36-B01	DL-11004	RHR Service Water P&ID Outside Building	1
1L36-B01	HL-11033 (Sh 1)	Fire Protection Piping P&ID Pumphouse Layout	1
1L36-B01	HL-11600	Service Water P&ID at Diesel Generator Sh. 2	1
1L36-B01	HL-16016	Reactor & Radwaste Bldg. Condensate Storage & Trans Sys P&ID	3
1L36-B01	HL-16061	Standby Liquid Control System P&ID	3
1L36-B01	HL-16332	HPCI System P&ID Sh. 1	3
1L36-B01	HL-16334	RCIC System P&ID Sh. 1	3
1L36-B01	DL-11001	Service Water Piping at Intake Structure P&ID Sh.1	1
1N32-B01	HL-11601	Main & Aux. Steam System Sh. 2	1
1N32-B01	HL-11602	Main & Aux. Steam System Sh. 3	1
1P11-B01	HL-16016	Reactor & Radwaste Bldg. Condensate Storage & Trans Sys P&ID	3
1P11-B01	HL-16332	HPCI System P&ID Sh. 1	3
1P11-B01	HL-16334	RCIC System P&ID Sh. 1	3
1P33-B01	HL-16173	Fission Products Monitoring System P&ID Sh. 1	3
1P33-B01	HL-16276	Primary Containment Atmosphere H <sub>2</sub> &O <sub>2</sub> Analyzer Sys P&ID Sh1	3
1P33-B01	HL-16280	Primary Containment Atmosphere H <sub>2</sub> &O <sub>2</sub> Analyzer Sys P&ID Sh2	3
1P41-B01	DL-11001	Service Water Piping at Intake Structure P&ID Sh.1	1
1P41-B01	DL-11004	RHR Service Water P&ID Outside Building	1
1P41-B01	HL-11024	Service Water Piping P&ID Sh.1	1
1P41-B01	HL-11600	Service Water P&ID at Diesel Generator Sh. 2	1
1P41-B01	HL-11609	Service Water Piping P&ID Sh. 2	1
1P41-B01	HL-11611	Service Water Piping P&ID Sh. 4	1
1P41-B01	HL-16002	Fuel Pool Cooling System P&ID	3
1P41-B01	HL-16011	Reactor Bldg. Service Water System P&ID	3
1P42-B01	HL-16009	Reactor Bldg. Closed Cooling Water System P&ID	3
1P42-B01	HL-16066	Reactor Recirculation System P&ID	3
1P52-B01	HL-11667	Reactor Bldg. Instrument Air System Tables Sh. 2	1
1P52-B01	HL-16251	Reactor Bldg. Instrument Air System Tables Sh. 1	3
1P52-B01	HL-16299	Drywell Pneumatic System P&ID Sh. 2	3
1P70-B01	HL-16286	Drywell Pneumatic System P&ID Sh.1	3
1P70-B01	HL-16299	Drywell Pneumatic System P&ID Sh. 2	3
1R20-B01	HL-13350	Master Single Line Diagram	2
1R20-B01	HL-13354	Single Line Diagram 4160V Bus 1A, Bus 1B, Bus 1AA & 1BB	2
1R20-B01	HL-13361	Single Line Diagram 600V Bus 1C & Bus 1D	2
1R20-B01	HL-13362 (Sh 1)	Single Line Diagram Diesel Bldg. Station Service	2
1R20-B01	HL-13362 (Sh 2)	Single Line Diagram Diesel Bldg. Station Service	2
1R20-B01	HL-13364	Single Line Diagram Control Bldg. 600V MCC 1E, 1F & 1G	2
1R20-B01	HL-13365	Single Line Diagram Control Bldg. 600V-208V MCC 1B & 1C	2

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Boundary Number	Boundary Diagram No.	Title	Vol. No.
1R20-B01	HL-13389	Single Line Diagram Intake Structure 600V-208V MCC 1A & 1B	2
1R20-B01	HL-13406 (Sh 2)	Single Line Diagram 120V/208V Distribution Cabinet Misc.	2
1R20-B01	HL-13647	Single Line Diagram Diesel Bldg. 600-208V MCC-1A	2
1R20-B01	HL-13648	Single Line Diagram Diesel Bldg 600-208V MCC-1B &1D	2
1R20-B01	HL-13649	Single Line Diagram Diesel Bldg 600-208V MCC-1C	2
1R20-B01	HL-17010	Single Line Diagram Reactor Bldg. 600V AC Essential MCC "1C" Sh. 1	3
1R20-B01	HL-17011	Single Line Diagram Reactor Bldg. 600V Essential MCC "1B" Sh. 1	3
1R20-B01	HL-17012	Single Line Diagram Reactor Bldg. 600V MCC "1E-A" & "1E-B"	3
1R20-B01	HL-17016	Single Line Diagram Reactor Bldg. 600V AC Essential MCC "1C" Sh. 2	3
1R20-B01	HL-17017	Single Line Diagram Reactor Bldg. 600V AC Essential MCC "1B" Sh. 2	3
1R42-B01	HL-13370 (Sh 1)	Single Line Diagram 125/250V DC Station Service Div. I	2
1R42-B01	HL-13370 (Sh 2)	Single Line Diagram 125/250V DC Station Service Div. II	2
1R42-B01	HL-13652	Lighting Wiring Diagram Cabinets L1-G & L1-H	2
1R42-B01	HL-13653	Lighting Wiring Diagram Cabinets L1-J & Control Bldg. Emer. Ltg.	2
1R42-B01	HL-17022	Single Line Diagram Reactor Bldg. 250V DC Essential MCC "1A" & "1A-1"	3
1R42-B01	HL-17023	Single Line Diagram Reactor Bldg. 250V DC Essential MCC "1B"	3
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1R42-B02	HL-13371 (Sh 1)	Single Line Diagram 125V DC Emergency Station Service	2
1R42-B02	HL-13371 (Sh 2)	Single Line Diagram 125V DC Emergency Station Service	2
1R42-B03	HL-13406 (Sh 1)	Single Line Diagram 120V/208V Distribution Cabinet Misc.	2
1R42-B03	HL-13614	Wiring Diagram Fire Protection Pump House Equipment	2
1R43-B01	HL-11631 (sh. 1)	Diesel Generator P&ID 1A & 1C Sh. 1	1
1R43-B01	HL-11631 (sh. 2)	Diesel Generator P&ID 1A & 1C Sh. 2	1
1R43-B01	HL-11638 (sh. 1)	Diesel Generator P&ID 1B Sh. 1	1
1R43-B01	HL-11638 (sh. 2)	Diesel Generator P&ID 1B Sh. 2	1
1R43-B01	HL-13350	Master Single Line Diagram	2
1S11-B01	HL-13350	Master Single Line Diagram	2
1T23-B01	HL-16013	Reactor & Radwaste Building Service Air System Diagram	3
1T23-B01	HL-16015	Reactor Bldg. Demineralized Water System P&ID	3
1T23-B01	HL-16024	Primary Containment Purge & Inerting System P&ID	3
1T23-B01	HL-16060	Primary Containment Integrated Leak Rate Test P&ID	3
1T23-B01	HL-16135	Torus Drainage & Purification System P&ID & PFD	3
1T23-B01	HL-16173	Fission Products Monitoring System P&ID Sh. 1	3
1T23-B01	HL-16176	Radwaste System P&ID Sh. 1	3
1T23-B01	HL-16286	Drywell Pneumatic System P&ID Sh.1	3
1T23-B01	HL-16561	Power Range Neutron Monitoring Sh. 2	3
1T41-B01	HL-16005	Reactor Bldg. Ventilation System P&ID	3
1T41-B01	HL-16014	Reactor Bldg. Refueling Floor Ventilation System P&ID	3
1T41-B02	HL-16023	Safeguard Equipment Cooling P&ID	3
1T46-B01	HL-16020	Standby Gas Treatment System P&ID Sh. 1	3
1T46-B01	HL-16024	Primary Containment Purge & Inerting System P&ID	3
1T46-B01	HL-16174	Standby Gas Treatment System P&ID Sh. 2	3

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1T48-B01	HL-16000	Nitrogen Inerting System P&ID	3
1T48-B01	HL-16007	Drywell Cooling System P&ID	3
1T48-B01	HL-16024	Primary Containment Purge & Inerting System P&ID	3
1T48-B01	HL-16153	Drywell to Torus Differential Pressure System P&ID	3
1T48-B01	HL-16239	Reactor Bldg. Instrument Air System P&ID	3
1T48-B01	HL-16286	Drywell Pneumatic System P&ID Sh.1	3
1T48-B01	HL-26384	Post Accident Reactor Coolant & Containment Atmosphere Sampling Sys. P&ID.	5
1X41-B01	HL-44073	River Intake Structure HVAC P&ID	5
1X43-B01	HL-11033 (Sh 1)	Fire Protection Piping P&ID Pumphouse Layout	1
1X43-B01	HL-11033 (Sh 2)	Fire Protection Piping P&ID Yard Layout	1
1X43-B01	HL-11033 (Sh 3)	Fire Protection Piping P&ID Yard Layout Cooling Towers	1
1X43-B01	HL-11034	Fire Protection Piping P&ID Reactor & Radwaste Bldgs.	1
1X43-B01	HL-11035	Fire Protection Piping P&ID Turbine & Cont. Bldgs.	1
1X43-B01	HL-11304 (Sh 1)	Fire Protection Piping P&ID E & W Cableways Sprinkler Sys	1
1X43-B01	HL-11304 (Sh 10)	Fire Protection Piping P&ID Sprinkler System 1FH-73 Pumphouse	1
1X43-B01	HL-11304 (Sh 2)	Fire Protection Piping P&ID Reactor Feed Pump & RFP Oil Cond.	1
1X43-B01	HL-11304 (Sh 3)	Fire Protection Piping P&ID Cond. Below El 130'	1
1X43-B01	HL-11304 (Sh 4)	Fire Protection Piping P&ID Sprinkler System W End of Cond.	1
1X43-B01	HL-11304 (Sh 5)	Fire Protection Piping P&ID HPCI & RCIC Pump & Turb. Room	1
1X43-B01	HL-11304 (Sh 6)	Fire Protection Piping P&ID Fuel Oil & SU Boiler & Lube Oil Tank	1
1X43-B01	HL-11304 (Sh 7)	Fire Protection Piping P&ID E & W Recirc. Pump MG Pump Sets	1
1X43-B01	HL-11304 (Sh 8)	Fire Protection Piping P&ID React. & Radw Bldgs Charcoal Filters	1
1X43-B01	HL-11319	Fire Protection Piping P&ID Control Building	1
1X43-B01	HL-11322	Fire Protection Piping P&ID Intake Structure	1
1X43-B01	HL-11324	Fire Protection Piping P&ID HVAC Room Unit 1	1
1X43-B01	HL-11325	Fire Protection Piping P&ID RPS Rooms & Corridors	1
1X43-B01	HL-11374	Fire Protection Piping P&ID Stand-By Gas Treatment Filter Sys.	1
1X43-B01	HL-16020	Standby Gas Treatment System P&ID Sh. 1	3
1X43-B01	HL-40133	Fire Protection Piping P&ID Health Physics	5
1X43-B01	HL-40390	Fire Prot. P&ID Reactor Bldg. EL. 87'-0" East Torus Water Curtain	5
1X43-B01	HL-40391	Fire Prot. P&ID Reactor Bldg. EL. 87'-0" West Torus Water Curtain	5
1X43-B01	HL-40392	Fire Prot. P&ID Reactor Bldg. EL. 130'-0" East 130 Water Curtain	5
1X43-B01	HL-40393	Fire Prot. P&ID Reactor Bldg. EL. 130'-0" Northwest 130 Water Curtain	5
1X43-B01	HL-40394	Fire Prot. P&ID Reactor Bldg. EL. 130'-0" Southwest 130 Water Curtain	5
1X43-B01	HL-40395	Fire Prot. P&ID Reactor Bldg. EL. 158'-0" East 158 Water Curtain	5
1X43-B01	HL-40396	Fire Prot. P&ID Reactor Bldg. EL. 185'-0" East 185 Water Curtain	5
1X43-B01	HL-40397	Fire Prot. P&ID Reactor Bldg. EL. 185'-0" West 185 Water Curtain	5
1X43-B01	HL-40406	Fire Protection P&ID Control Bldg. North Corridor FL. EL. 130'-0"	5
1X43-B01	HL-11323	Fire Protection Piping P&ID Cable Spreading Room	1
1X43-B02	HL-41508	Turbine & Control Bldgs Fire Protection Piping CO2 System P&ID	5
1X43-B03	HL-41509	Diesel Generator Bldg. CO2 System P&ID	5
1X43-B04	HL-41509	Diesel Generator Bldg. CO2 System P&ID	5



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1X43-B06	HL-11304 (Sh 2)	Fire Protection Piping P&ID Reactor Feed Pump & RFP Oil Cond.	1
1X43-B06	HL-11304 (Sh 3)	Fire Protection Piping P&ID Cond. Below El 130'	1
1X43-B06	HL-11304 (Sh 4)	Fire Protection Piping P&ID Sprinkler System W End of Cond.	1
1X43-B06	HL-11323	Fire Protection Piping P&ID Cable Spreading Room	1
1X43-B06	HL-11324	Fire Protection Piping P&ID HVAC Room Unit 1	1
1X43-B06	HL-11867	Equip Layout Fire Det/Sup Multiplex Sys 1T43 Reactor Bldg Below EL 130'-0"	2
1X43-B06	HL-11868	Equip. Layout Fire Det/Sup Multiplex Sys 1T43 - Reactor Bldg EL 130'-0"	2
1X43-B06	HL-11869	Equip. Layout Fire Det/Sup Multiplex Sys 1T43 - Reactor Bldg EL 158'-0"	2
1X43-B06	HL-11870	Equip. Layout Fire Det/Sup Multiplex Sys 1T43 - Reactor Bldg EL 185'-0"	2
1X43-B06	HL-11872	Equip. Layout Fire Det/Sup Multiplex Sys 1T43 - Reactor Bldg EL 228'-0"	2
1X43-B06	HL-11876	Equip. Layout Fire Det/Sup Multiplex Sys 1T43 - Reactor Bldg EL 228'-0"	2
1X43-B06	HL-11877	Equip. Layout Fire Det/Sup Multiplex Sys 1U43 - Turbine Bldg EL 130'-0"	2
1X43-B06	HL-11878	Equip. Layout Fire Det/Sup Multiplex Sys 1U43 - Turbine Bldg EL 147'-0"	2
1X43-B06	HL-11879	Equip. Layout Fire Det/Sup Multiplex Sys 1U43 - Turbine Bldg EL 164'-0"	2
1X43-B06	HL-11880	Equip. Layout Fire Det/Sup Multiplex Sys 1Z43 - Control Bldg. EL 112'-0"	2
1X43-B06	HL-11881	Equip. Layout Fire Det/Sup Multiplex Sys 1Z43 - Control Bldg. EL 112'-0"	2
1X43-B06	HL-11882	Equip. Layout Fire Det/Sup Multiplex Sys 1Z43 - Control Bldg. EL 130'-0"	2
1X43-B06	HL-11883	Equip. Layout Fire Det/Sup Multiplex Sys 1Z43 - Control Bldg. El. 130'-0"	2
1X43-B06	HL-11885	Equip. Layout Fire Det/Sup Multiplex Sys 1Z43 - Control Bldg. El. 164'-0"	2
1X43-B06	HL-11886	Equip. Layout Fire Det/Sup Multiplex Sys 1Z43 - Control Bldg. El. 180'-0"	2
1X43-B06	HL-11887	Equip. Layout Fire Det/Sup Multiplex Sys 1U43 - West Cableway EL. 112'-0"	2
1X43-B06	HL-11892	Equip. Layout Fire Det/Sup Multiplex Sys 1Y43 - Intake Structure	2
1X43-B06	HL-11895	Equip. Layout Fire Det/Sup Multiplex Sys 1X43 - Transformer Switch Yard	2
1X43-B06	HL-11896	Equip. Layout Fire Det/Sup Multiplex Sys 1X43 - Out Buildings	2
1X43-B06	HL-41508	Turbine & Control Bldgs Fire Protection Piping CO2 System P&ID	5
1X43-B06	HL-41509	Diesel Generator Bldg. CO2 System P&ID	5
1X43-B07	HL-11804	Fire Hazards Analysis Turb. Bldg. El. 112'-0"	1
1X43-B07	HL-11805	Fire Hazards Analysis Turb. Bldg. El. 130'-0"	1
1X43-B07	HL-11806	Fire Hazards Analysis Turb. Bldg. El. 147'-0"	1
1X43-B07	HL-11807	Fire Hazards Analysis Turb. Bldg. El. 164'-0"	1
1X43-B07	HL-11811	Fire Hazards Analysis Control Bldg. El. 112'-0"	1
1X43-B07	HL-11812	Fire Hazards Analysis Control Bldg. El. 112'-0"	1
1X43-B07	HL-11814	Fire Hazards Analysis Control Bldg. El. 130'-0"	1
1X43-B07	HL-11815	Fire Hazards Analysis Control Bldg. El. 130'-0"	1
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1X43-B07	HL-11818	Fire Hazards Analysis Control Bldg. El. 180'-0"	1
1X43-B07	HL-11827	Fire Hazards Analysis Reactor Bldg. El. 130'-0"	1
1X43-B07	HL-11828	Fire Hazards Analysis Reactor Bldg. El. 158'-0"	1
1X43-B07	HL-11829	Fire Hazards Analysis Reactor Bldg. El. 185'-0"	1
1X43-B07	HL-11830	Fire Hazards Analysis Reactor Bldg. El. 203'-0"	1
1X43-B07	HL-11831	Fire Hazards Analysis Reactor Bldg. El. 228'-0"	1

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1X43-B07	HL-11846	Fire Hazards Analysis Diesel Generator Building	2
1X43-B07	HL-11848	Fire Hazards Analysis Fire Protection Pumphouse	2
1X75-B01	HL-19769	Emer Resp. Fac. Class 1E to Non Class 1E Digital Isol. Sys X75A Elem.	3
1Y52-B01	HL-11037	Fuel Oil Deisel Oil System P&ID	1
1Y52-B01	HL-11631 (sh. 2)	Diesel Generator P&ID 1A & 1C Sh. 2	1
1Y52-B01	HL-11638 (sh. 2)	Diesel Generator P&ID 1B Sh. 2	1
1Z41-B01	HL-11609	Service Water Piping P&ID Sh. 2	1
1Z41-B01	HL-16042	Control Bldg. Control & Cable Spreading Rms. A.C. Temp. Control	3
1Z41-B01	HL-26116	Control Room Shift Supervisor's Area HVAC P&ID and PFD	5
2B11-B01	HL-26000	Nuclear Boiler System P&ID Sh. 1	4
2B11-B01	HL-26003	Reactor Recirculation System P&ID Sh. 1	4
2B11-B01	HL-26001	Nuclear Boiler System P&ID Sh.2	4
2B21-B02	HL-26000	Nuclear Boiler System P&ID Sh. 1	4
2B21-B02	HL-26001	Nuclear Boiler System P&ID Sh.2	4
2B21-B02	HL-26003	Reactor Recirculation System P&ID Sh. 1	4
2B21-B02	HL-26006	Control Rod Drive System P&ID Sh. 1	4
2B21-B02	HL-26009	Standby Liquid Contro System P&ID	4
2B21-B02	HL-26015	R.H.R. System P&ID Sh. 2	4
2B21-B02	HL-26018	Core Spray System P&ID	4
2B21-B02	HL-26020	HPCI System P&ID Sh. 1	4
2B21-B02	HL-26023	RCIC System SH. 1	4
2B21-B02	HL-26036	Reactor Water Clean Up System P&ID Sh. 1	4
2B21-B02	HL-26077	Primary Containment Valve & Equipment Drainage System P&ID	5
2B21-B02	HL-26189	Nuclear Boiler System P&ID Sh. 3	5
2B21-B02	HL-26384	Post Accident Reactor Coolant & Containment Atmosphere Sampling Sys. P&ID.	5
2B21-B02	HL-28001	Reactor Protection System P&ID	5
2B21-B02,	HL-26014	R.H.R. System P&ID Sh. 1	4
2B31-B02	HL-26003	Reactor Recirculation System P&ID Sh. 1	4
2C11-B01	HL-26006	Control Rod Drive System P&ID Sh. 1	4
2C11-B01	HL-26007	Control Rod Drive System P&ID Sh.2	4
2C41-B01	HL-26009	Standby Liquid Contro System P&ID	4
2C71-B02	HL-23369 (Sh 1)	Single Line Diagram 120/208V Essential A.C. System 2R20N	4
2C71-B02	HL-23369 (Sh 2)	Single Line Diagram 120/208V Essential A.C. System 2R20N	4
2D11-B01	HL-26011	Process Radiation Monitoring System P&ID Sh. 1	4
2D11-B02	HL-26017	Fission Products Post-LOCA Monitoring Systems P&ID	4
2E11-B01	HL-21039	R.H.R. Service Water System P&ID	4
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2E11-B01	HL-26018	Core Spray System P&ID	4
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2E11-B01	HL-26068	Post LOCA Hydrogen Recombiner System P&ID	5
2E11-B01	HL-26000	Nuclear Boiler System P&ID Sh. 1	4
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2E41-B01	HL-26020	HPCI System P&ID Sh. 1	4
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2R20-B01	HL-23317	Single Line Diagram Diesel Bldg. 600/208V Essential MCC - 2C	4
2R20-B01	HL-23355	Single Line Diagram 4160V Bus 2A & 2B	4
2R20-B01	HL-23362	Single Line Diagram 600V Bus 2C & 2D	4
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2T46-B01	HL-26078	Standby Gas Treatment System P&ID	5
2T46-B01	HL-26084	Primary Containment Purge and Inerting System P&ID	5
2T48-B01	HL-26020	HPCI System P&ID Sh. 1	4
2T48-B01	HL-26074	Primary Containment Cooling System P&ID and PFD	5
2T48-B01	HL-26079	Drywell to Torus Differential Pressure System P&ID	5
2T48-B01	HL-26083	Nitrogen Inerting System P&ID	5
2T48-B01	HL-26084	Primary Containment Purge and Inerting System P&ID	5
2T48-B01	HL-26384	Post Accident Reactor Coolant & Containment Atmosphere Sampling Sys. P&ID.	5
2T49-B01	HL-26068	Post LOCA Hydrogen Recombiner System P&ID	5
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2X43-B01	HL-11323	Fire Protection Piping P&ID Cable Spreading Room	1
2X43-B01	HL-11326	Fire Protection Piping P&ID HVAC Room Unit 2	1
2X43-B01	HL-21016	Turbine Bldg. Fire Protection System P&ID	3
2X43-B01	HL-21017	Reactor & Radwaste Bldg. Fire Protection System P&ID	3
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2X43-B01	HL-50036	Fire Protection Piping P&ID Standby Gas Treatment Filters	5
2X43-B01	HL-50041	Fire Prot. P&ID Reactor Bldg. Fl. El. 87'-0" East Torus Water Curtain	5
2X43-B01	HL-50042	Fire Prot. P&ID Reactor Bldg. Fl. El. 87'-0" West Torus Water Curtain	5
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2X43-B01	HL-50044	Fire Prot. P&ID Reactor Bldg. Fl. El. 130'-0" NW 130 Water Curtain	5
2X43-B01	HL-50045	Fire Prot. P&ID Reactor Bldg. Fl. El. 158'-0" East 158 Water Curtain	5
2X43-B01	HL-50046	Fire Prot. P&ID Reactor Bldg. Fl. El. 185'-0" East 185 Water Curtain	5
2X43-B01	HL-50047	Fire Prot. P&ID Reactor Bldg. Fl. El. 185'-0" West 185 Water Curtain	5
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2X43-B01	HL-50276	Fire Prot. P&ID Reactor Bldg. Fl. El. 185'-0" East 185 Water Curtain	5
2X43-B03	HL-41509	Diesel Generator Bldg. CO2 System P&ID	5
2X43-B04	HL-41509	Diesel Generator Bldg. CO2 System P&ID	5
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2X43-B06	HL-11902	Equip. Layout Fire Det/Sup Multiplex Sys 2T43 - Reactor Bldg El. 185'-0"	2
2X43-B06	HL-11903	Equip. Layout Fire Det/Sup Multiplex Sys 2T43 - Reactor Bldg El. 203'-0"	2
2X43-B06	HL-11908	Equip. Layout Fire Det/Sup Multiplex Sys 2U43 - Turbine Bldg. El. 112'-0"	2
2X43-B06	HL-11909	Equip. Layout Fire Det/Sup Multiplex Sys 2U43 - Turbine Bldg. El. 130'-0"	2
2X43-B06	HL-11910	Equip. Layout Fire Det/Sup Multiplex Sys 2U43 - Turbine Bldg. El. 147'-0"	2
2X43-B06	HL-11911	Equip. Layout Fire Det/Sup Multiplex Sys 2U43 - Turbine Bldg. El. 164'-0"	2
2X43-B06	HL-11912	Equip. Layout Fire Det/Sup Multiplex Sys 2U43 - W. Cableway EL. 112'-0"	2
2X43-B06	HL-11913	Equip. Layout Fire Det/Sup Multiplex Sys 2Z43 - Control Bldg. EL. 112'-0"	2
2X43-B06	HL-11914	Equip. Layout Fire Det/Sup Multiplex Sys 2Z43 - Control Bldg. EL. 112'-0"	2
2X43-B06	HL-11917	Equip. Layout Fire Det/Sup Multiplex Sys 2Z43 - Control Bldg. EL. 147'-0"	2
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2X43-B06	HL-21199	Turb. Bldg. Fire Protection System P&ID	4
2X43-B06	HL-21202	Turb. Bldg. Fire Protection System P&ID Sh. 5 of 5	4
2X43-B06	HL-41509	Diesel Generator Bldg. CO2 System P&ID	5
2X43-B06	HL-50048	Fire Protection P&ID Halon System for Panel 2C82-P001	5
2X43-B07	HL-11811	Fire Hazards Analysis Control Bldg. El. 112'-0"	1
2X43-B07	HL-11812	Fire Hazards Analysis Control Bldg. El. 112'-0"	1
2X43-B07	HL-11814	Fire Hazards Analysis Control Bldg. El. 130'-0"	1
2X43-B07	HL-11815	Fire Hazards Analysis Control Bldg. El. 130'-0"	1
2X43-B07	HL-11820	Fire Hazards Analysis Turb. Bldg. El. 112'-0"	1
2X43-B07	HL-11821	Fire Hazards Analysis Turb. Bldg. El. 130'-0"	1
2X43-B07	HL-11822	Fire Hazards Analysis Turb. Bldg. El. 147'-0"	1
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2X43-B07	HL-11833	Fire Hazards Analysis Reactor Bldg. El. 130'-0"	1
2X43-B07	HL-11834	Fire Hazards Analysis Reactor Bldg. El. 158'-0"	1
2X43-B07	HL-11835	Fire Hazards Analysis Reactor Bldg. El. 185'-0"	1
2X43-B07	HL-11836	Fire Hazards Analysis Reactor Bldg. El. 203'-0"	2
2X43-B07	HL-11837	Fire Hazards Analysis Reactor Bldg. El. 228'-0"	2
2X43-B07	HL-11842	Fire Hazards Analysis Radwaste Bldg. El.103'-0", 148'-0", 178'-0"	2
2X43-B07	HL-11844	Fire Hazards Analysis Radwaste Bldg. El.164'-0"	2
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2X75-B01	HL-24553	Emer Resp. Fac. Class 1E to Non Class 1E Digital Isol. Sys X75A Elem.	4
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DL-11004	1L36-B01	RHR Service Water P&ID Outside Building	1
DL-11004	1P41-B01	RHR Service Water P&ID Outside Building	1
EL-10173	Buildings	General Building Site Plan	1
HL-11024	1P41-B01	Service Water Piping P&ID Sh.1	1
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HL-11033 (Sh 1)	1X43-B01	Fire Protection Piping P&ID Pumphouse Layout	1
HL-11033 (Sh 2)	1X43-B01	Fire Protection Piping P&ID Yard Layout	1
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HL-11034	1X43-B01	Fire Protection Piping P&ID Reactor & Radwaste Bldgs.	1
HL-11035	1X43-B01	Fire Protection Piping P&ID Turbine & Cont. Bldgs.	1
HL-11037	1Y52-B01	Fuel Oil Deisel Oil System P&ID	1
HL-11304 (Sh 1)	1X43-B01	Fire Protection Piping P&ID E & W Cableways Sprinkler Sys	1
HL-11304 (Sh 10)	1X43-B01	Fire Protection Piping P&ID Sprinkler System 1FH-73 Pumphouse	1
HL-11304 (Sh 2)	1X43-B01	Fire Protection Piping P&ID Reactor Feed Pump & RFP Oil Cond.	1
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HL-11304 (Sh 4)	1X43-B06	Fire Protection Piping P&ID Sprinkler System W End of Cond.	1
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HL-11304 (Sh 6)	1X43-B01	Fire Protection Piping P&ID Fuel Oil & SU Boiler & Lube Oil Tank	1
HL-11304 (Sh 7)	1X43-B01	Fire Protection Piping P&ID E & W Recirc. Pump MG Pump Sets	1
HL-11304 (Sh 8)	1X43-B01	Fire Protection Piping P&ID Reac. & Radw Bldgs Charcoal Filters	1
HL-11319	1X43-B01	Fire Protection Piping P&ID Control Building	1
HL-11322	1X43-B01	Fire Protection Piping P&ID Intake Structure	1
HL-11323	1X43-B01	Fire Protection Piping P&ID Cable Spreading Room	1
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HL-11323	2X43-B01	Fire Protection Piping P&ID Cable Spreading Room	1
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HL-11324	1X43-B06	Fire Protection Piping P&ID HVAC Room Unit 1	1
HL-11325	1X43-B01	Fire Protection Piping P&ID RPS Rooms & Corridors	1
HL-11326	2X43-B01	Fire Protection Piping P&ID HVAC Room Unit 2	1
HL-11326	2X43-B06	Fire Protection Piping P&ID HVAC Room Unit 2	1
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HL-26000	2B21-B02	Nuclear Boiler System P&ID Sh. 1	4
HL-26000	2E11-B01	Nuclear Boiler System P&ID Sh. 1	4
HL-26000	2E41-B01	Nuclear Boiler System P&ID Sh. 1	4
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HL-26000	2N61-B01	Nuclear Boiler System P&ID Sh. 1	4
HL-26001	2B11-B01	Nuclear Boiler System P&ID Sh.2	4
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HL-40391	1X43-B01	Fire Prot. P&ID Reactor Bldg. EL. 87'-0" West Torus Water Curtain	5
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HL-40396	1X43-B01	Fire Prot. P&ID Reactor Bldg. EL. 185'-0" East 185 Water Curtain	5
HL-40397	1X43-B01	Fire Prot. P&ID Reactor Bldg. EL. 185'-0" West 185 Water Curtain	5
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HL-50044	2X43-B01	Fire Prot. P&ID Reactor Bldg. Fl. El. 130'-0" NW 130 Water Curtain	5
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HL-50046	2X43-B01	Fire Prot. P&ID Reactor Bldg. Fl. El. 185'-0" East 185 Water Curtain	5
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