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August 28, 2013

10CFR50.4

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: Duke Energy Carolinas, LLC (Duke Energy)

Catawba Nuclear Station (CNS), Units 1 and 2
Docket Nos. 50-413 and 50-414
Renewed License Nos. NPF-35 and NPF-52

First Six-Month Status Report in Response to March 12, 2012 Commission Order Modifying Licenses With Regard to Requirements for Mitigation Strategies for Beyond-Design-basis External Events (Order Number EA-12-049)

REFERENCES:

1. NRC Order Number EA-12-049, Order Modifying Licensees With Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events, Revision 0, dated March 12, 2012
2. NRC Interim Staff Guidance JLD-ISG-2012-01, Compliance With Order EA-12-049, Order Modifying Licensees with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events, Revision 0, dated August 29, 2012
3. NEI 12-06, Diverse and Flexible Coping Strategies (FLEX) Implementation Guide, Revision 0, dated August 2012
4. Duke Energy's Initial Status Report in Response to March 12, 2012, Commission Order Modifying Licenses with Regard To Requirements for Mitigation Strategies for Beyond-Design-Basis External Events (Order EA-12-049), dated October 29, 2012
5. Catawba Nuclear Station Overall Integrated Plan in Response to March 12, 2012, Commission Order to Modify Licenses With Regard To Requirements for Mitigation Strategies for Beyond Design Basis External Events (Order EA-12-049), dated February 28, 2013

On March 12, 2012, the NRC issued Order EA-12-049 (Reference 1). Reference 1 was immediately effective and directed licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities in the event of a beyond-design-basis external event. Specific requirements are outlined in Attachment 2 of Reference 1.

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Reference 1 required submission of an initial status report 60 days following issuance of the final interim staff guidance (Reference 2) and an overall integrated plan pursuant to Section IV, Condition C. Reference 2 endorses industry guidance document NEI 12-06, Revision 0 (Reference 3) with clarifications and exceptions identified in Reference 2. Reference 4 provided Duke Energy's initial status report regarding mitigation strategies at the Catawba, McGuire, and Oconee Nuclear Power Stations. Reference 5 provided Duke Energy's overall integrated plan for the Catawba Nuclear Station.

Reference 1 requires submission of a status report at six-month intervals following submittal of the overall integrated plan. Reference 3 provides direction regarding the content of the status reports. The purpose of this letter is to provide the first six-month status report pursuant to Section IV, Condition C.2, of Reference 1, that delineates progress made in implementing the requirements of Reference 1. The enclosed report provides an update of milestone accomplishments since the last status report, including any changes to the compliance method, schedule, or need for relief and the basis, if any.

This letter contains no new regulatory commitments. If you have any questions regarding this report, please contact Phil Barrett at (803) 701-4138.

I declare under penalty of perjury that the foregoing is true and correct. Executed on August 28, 2013.

Respectfully submitted,



Kelvin Henderson
Vice President, Catawba Nuclear Station

Enclosure:

1. First Six-Month Status Report (Order EA-12-049), Catawba Nuclear Station (CNS), Units 1 and 2, Docket Nos. 50-413 and 50-414, Renewed License Nos. NPF-35 and NPF-52

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ENCLOSURE

FIRST SIX MONTH STATUS REPORT (ORDER EA-12-049)

CATAWBA NUCLEAR STATION (CNS), UNITS 1 AND 2

DOCKET NOS. 50-413 AND 50-414

RENEWED LICENSE NOS. NPF-35 AND NPF-52

**ENCLOSURE
CNS FIRST SIXTH MONTH STATUS REPORT (ORDER EA-12-049)**

1. Introduction

Catawba Nuclear Station (CNS) developed an Overall Integrated Plan (Reference 1 in Section 8), documenting the diverse and flexible strategies (FLEX), in response to NRC Order EA-12-049 (Reference 2 in Section 8). The Overall Integrated Plan (OIP) was submitted to the NRC on February 28, 2013. This enclosure provides an update of milestone accomplishments including any changes to the compliance method, schedule, or need for relief/relaxation and the basis, if any, that occurred during the period from February 28, 2013 to July 30, 2013 (hereafter referred to as "the update period").

2. Milestone Accomplishments

The following milestones were completed during the update period:

- 1) Overall Integrated Plan was submitted on February 28, 2013

3. Milestone Schedule Status

The following provides an update to Attachment 2 of the Overall Integrated Plan. It provides the activity status of each item, and whether the expected completion date has changed. The dates are planning dates subject to change as design and implementation details are developed.

The revised milestone target completion dates are not expected to impact the order implementation date.

Milestone	Target Completion Date	Activity Status	Revised Target Completion Date
Submit 60 Day Initial Status Report	Oct 2012	Complete	Date Not Revised
Submit Overall Integrated Plan	Feb 2013	Complete	Date Not Revised
6 Month Status Update	Aug 2013	Started	Date Not Revised
Develop Engineering Changes (ECs)	Aug 2013	Started	Date Not Revised
Develop Strategies	Aug 2013	Started	Date Not Revised
Purchase Equipment	Feb 2014	Started	Date Not Revised
Develop Equipment PMs	Feb 2014	Started	Date Not Revised
Develop Guidelines	Feb 2014	Started	Date Not Revised
Develop Training	Feb 2014	Not Started	Date Not Revised
Implement Training	May 2015	Not Started	Date Not Revised

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Milestone	Target Completion Date	Activity Status	Revised Target Completion Date
Staffing 12-01 Phase II	Nov 2014	Not Started	Date Not Revised
Communications Integrated Plan	May 2015	Started	Date Not Revised
EC Implementation (On-Line)	May 2015	Not Started	Date Not Revised
Unit 1 EC Implementation (1EOC22)	Dec 2015	Not Started	Date Revised
Unit 2 EC Implementation (2EOC20)	May 2015	Not Started	Date Revised
Site Implementation Complete	Dec 2015	Not Started	Date Not Revised
Regional Response Centers Operational	Feb 2015	Started	Date Not Revised

4. Changes to Compliance Method

The following summarizes the changes to the compliance method as documented in the Overall Integrated Plan (Reference 1).

- 1) Change: The normal Nuclear Service Water system (RN) to Spent Fuel Pool (KF) make up alignment will be used as the primary configuration. It has been verified that the associated piping and components are qualified from a hazard standpoint and isolation valves are located outside of the Spent Fuel Pool building.

Justification: Associated RN and KF piping and components are or will be qualified from a hazard standpoint. Isolation valves are also located outside of the Spent Fuel Pool building.

Documentation: CN-1574-1.1 Rev. 58, CN-2574-2.1 Rev. 47, CN-1570-1.0 Rev. 25, CN-2570-1.0 Rev. 16, Open Item #74

- 2) Change: Debris removal equipment will be stored in two of the diverse protected facilities.

Justification: Having debris removal equipment stored in two of the three buildings will ensure that at least one of these machines is available since it is a critical piece of equipment and no alternatives are identified.

Documentation: Open Item #52

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- 3) **Change:** The borated water suction connections for the high pressure and low pressure pumps have changed. A new Refueling Water Storage Tank (FWST) piping connection will be added between valves KF-101B and 103A on Unit 1 and Unit 2 to serve as the primary and alternate borated water suction source for the high pressure and low pressure pumps. The single primary or alternate connection point will tie into a gated wye type adapter that will be used to supply the pumps which inject into each unit.

Justification: It has been determined that the pump selected for use as the portable Steam Generator make up pump can also be used as the low pressure borated water Reactor Coolant System (RCS) make up pump since both of these strategies will not be performed at the same time. The physical size, type of driver (diesel engine), and deployment location requirements dictate that this pump will need to be stored/staged outside of the Auxiliary building. As such, a more viable borated water pump suction connection had to be found for the low pressure pump. This new connection was also determined to be capable of supplying the high pressure pump, thus eliminating the previously identified borated water pump suction connections in the A and B Safety Injection pump rooms on each unit and the need to purchase additional low pressure injection pumps.

Documentation: Open Item #36, Open Item #37, Open Item #75, Attachment 1 (Revised sketches)

- 4) **Change:** The storage location for FLEX equipment at the Standby Nuclear Service Water Pond (SNSWP) has been relocated above possible flood levels. Therefore, the FLEX equipment will not need to be moved to higher elevations during a flood event.

Justification: It has been determined that a different FLEX equipment storage building design that still meets NEI 12-06 requirements can be constructed at a higher elevation near the SNSWP eliminating the need to move equipment from the building during a flooding event.

Documentation: Open Item #27

- 5) **Change:** Three FLEX storage buildings will be utilized with one building located near the SNSWP and the other two buildings located in the cooling tower yard area.

Justification: Relocation of two of the three FLEX storage buildings provides better access, less construction issues, and improved flood protection. The three buildings will still meet NEI 12-06 requirements for all hazards applicable to the site.

Documentation: Open Item #27, Attachment 1 (Revised sketches)

**ENCLOSURE
CNS FIRST SIXTH MONTH STATUS REPORT (ORDER EA-12-049)**

5. Need for Relief/Relaxation and Basis for the Relief/Relaxation

CNS expects to comply with the order implementation date and no relief/relaxation is required at this time.

6. Open Items

The following tables provide a summary status of the Open Items. The table under Section 6.a. provides the open items identified in the original OIP submitted on February 28, 2013. The table under Section 6.b. provides a list of open items that were added after February 28, 2013. The table under 6.c. provides a list of open items related to the Draft Safety Evaluation.

a. Open Items Documented in the Overall Integrated Plan.

Item	Overall Integrated Plan Open Item	Status
1	Disconnect all non-critical loads from vital batteries. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 25 in PIP C-12-2291.	Started
2	Provide pumping capacity to control level in TDAFWP pit sump. Additional analysis required to verify adequate pump head exists to overcome potential Turbine Building flooding. See Corrective Action 26 in PIP C-12-2291.	Started
3	Provide pumping capacity to control level in TDAFWP pit sump. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 27 in PIP C-12-2291.	Not Started
4	Recharge communication system and satellite phone system. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 28 in PIP C-12-2291.	Not Started
5	Align charging to Channel A and D Vital Batteries. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 29 in PIP C-12-2291.	Not Started
6	Align portable injection pump from Refueling Water Storage Tank to Safety Injection System to provide Reactor Coolant System makeup and boration. Approximate time suggested by PWROG to provide negative reactivity addition and maintain margin to criticality. Site specific analysis will need to be performed to establish actual time. See Corrective Action 30 in PIP C-12-2291.	Started
7	Align portable injection pump from Refueling Water Storage Tank to Safety Injection System to provide Reactor Coolant System makeup and boration. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 31 in PIP C-12-2291.	Not Started

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Item	Overall Integrated Plan Open Item	Status
8	Provide portable lighting (beyond head and hand lamps and installed battery lighting). Activity to be validated in conjunction with associated procedure changes. See Corrective Action 32 in PIP C-12-2291.	Not Started
9	Install portable fans in Control Room and Battery Rooms. Time based on engineering judgment. Analysis will determine the need and timing for ventilation. See Corrective Action 33 in PIP C-12-2291.	Started
10	Install portable fans in Control Room and battery rooms. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 34 in PIP C-12-2291.	Not Started
11	Connect diesel driven Hale Pump through Essential Service Water piping to Spent Fuel Pool skimmer loop to provide a means to make up to the SFP without entering the SFP area. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 35 in PIP C-12-2291.	Not Started
12	Open Spent Fuel Pool bay doors. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 36 in PIP C-12-2291.	Not Started
13	Align diesel driven Hale Pump to supply Essential Service Water supply header from UHS. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 37 in PIP C-12-2291.	Not Started
14	Align diesel driven Hale Pump to supply second diesel driven Hale Pump to feed SGs. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 38 in PIP C-12-2291.	Not Started
15	Re-power H2 igniters. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 39 in PIP C-12-2291.	Not Started
16	Align charging to Channel B and C Vital Batteries. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 40 in PIP C-12-2291.	Not Started
17	Isolate the Cold Leg Accumulators. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 41 in PIP C-12-2291.	Not Started
18	Evaluate need to provide freeze protection for instrumentation located in Doghouses and yard. 48 hours is based on engineering judgment. Evaluation will be performed to determine actual action time. See Corrective Action 42 in PIP C-12-2291.	Not Started
19	Evaluate need to provide freeze protection for instrumentation located in Doghouses and yard. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 43 in PIP C-12-2291.	Not Started

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Item	Overall Integrated Plan Open Item	Status
20	Isolate Instrument Air to Containment. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 44 in PIP C-12-2291.	Not Started
21	Align portable diesel driven Hale Pump to Containment Spray connection. Contingency to be available if required to reduce Containment temperature. Modification of an existing B.5.b Strategy. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 45 in PIP C-12-2291.	Not Started
22	Align RRC diesel generator to power installed Containment Spray pumps. Activity to be validated in conjunction with associated procedure changes. See Corrective Action 46 in PIP C-12-2291.	Not Started
23	Arrangements with local transportation businesses and Regional Response Centers will need to be established to ensure personnel and equipment can reach the site considering extensive damage to surrounding infrastructure (roads, bridges, etc.). See Corrective Action 47 in PIP C-12-2291.	Not Started
24	Additional sump pumps need to be specified, purchased, and placed in critical rooms and floor elevations in the Auxiliary building to mitigate/control internal flooding. See Corrective Action 48 in PIP C-12-2291.	Started
25	Develop adequate procedural and administrative guidance to implement mitigation strategies and supporting activities during Phase 1, 2, and 3. See Corrective Action 49 in PIP C-12-2291.	Not Started
26	Provide S/G Makeup via CA TDP with static RC/RN suction supply - Procedural guidelines and ECR 6139 and 6140. See Corrective Action 7 and 19 in PIP C-12-2291.	Started
27	A site specific Building Specification will be written that details the storage facility design requirements and ECR 5979 will design and construct the facilities. See Corrective Action 12 in PIP C-12-2291.	Started
28	Add appropriate FLEX equipment to the site Periodic Maintenance (PM) program. See Corrective Action 50 in PIP C-12-2291.	Not Started
29	Develop a Document for the FLEX program. See Corrective Action 51 in PIP C-12-2291.	Started
30	Determine if Engineering Change program documents or checklists need to be revised to include verification that the modification does not impact the FLEX program. See Corrective Action 52 in PIP C-12-2291.	Not Started

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Item	Overall Integrated Plan Open Item	Status
31	Develop applicable training programs to support the FLEX strategies and supporting activities. Training will be provided once programs are in place. Corrective Action 53 in PIP C-12-2291 has been closed to the Needs and Evaluation Database (NED). NED 13-02758 has been initiated and assigned for processing.	Started
32	Develop flow model calculations to support the various FLEX strategies and document the available static water volume in the RN/CA piping (PIP C-12-2291 CA 20).	Started
33	Provide RN supply header hose connections in the yard and in the pumphouse for portable pump to fill/pressurize RN system - ECR 5976 and 5977.	Started
34	Provide primary and alternate CA piping connections for S/G Makeup via portable pump (ECR 5980 and 5981). See Corrective Action 13 and 14 in PIP C-12-2291.	Started
35	Provide MCC cable plug in connections for various loads (ECR 6047 and 6048). See Corrective Action 75 and 76 in PIP C-12-2291.	Started
36	Provide primary and alternate RCS makeup and injection connections (ECR 5983 and 5984). See Corrective Action 15 and 16 in PIP C-12-2291.	Not Started
37	Purchase high pressure and low pressure RCS injection pumps. See Corrective Action 54 in PIP C-12-2291.	Not Started
38	Provide seismically qualified connection on the FD piping to access diesel fuel in safety related underground storage tanks (ECR 5985 and 5988). See Corrective Action 17 and 18 in PIP C-12-2291.	Not Started
39	Purchase portable diesel fuel transfer pump and storage tank. See Corrective Action 55 in PIP C-12-2291.	Started
40	Provide access road to the SNSWP for the portable diesel pump (ECR 5978). See Corrective Action 11 in PIP C-12-2291.	Started
41	An analysis is needed to determine whether or not venting/letdown is required when providing borated water injection. See Corrective Action 56 in PIP C-12-2291.	Started
42	An analysis is needed to determine if containment spray for temperature/pressure control is not required over the long term. See Corrective Action 57 in PIP C-12-2291.	Started
43	Provide redundant SFP Level Instruments per NRC Order - EC109413 and 109414.	Started
44	Determine lighting requirements via Corrective Action 30 and 31 in PIP C-11-6867.	Started
45	Determine lighting requirements and implement as needed via Corrective Action 24 in PIP C-12-2291.	Started

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Item	Overall Integrated Plan Open Item	Status
46	Determine long term environmental conditions in the Control Room and CA Pump room via Corrective Action 13 in PIP C-11-6867. This evaluation will be part of Corrective Action 33 in PIP C-12-2291.	Started
47	Ensure that an appropriate inventory of portable hand-held satellite phones, spare batteries, and chargers, is available for use by the Emergency Response Organization. See Corrective Action 7 in PIP C-12-2195.	Complete (See Reference 3 in Section 8)
48	Evaluate and purchase, if necessary, additional portable radios, spare batteries, and chargers to ensure required communications links are fully established. Corrective Action 8 in PIP C-12-2195.	Not Started
49	Ensure that portable communications equipment (i.e., satellite phones, radios, and diesel generators) are stored in a manner such that maximizes survivability from applicable external events per NEI 12-01, Section 4.5. Corrective Action 9 in PIP C-12-2195.	Not Started
50	Ensure that programmatic controls are established for communications equipment (i.e., portable satellite phones, radios, small generators) to ensure availability and reliability, including the performance of periodic inventory checks and operability testing per NEI 12-01, Section 4.8. Also, provide training on the locations and use of communications systems and equipment (NEI 12-01, Section 4.11). Corrective Action 10 in PIP C-12-2195.	Not Started
51	Ensure that arrangements are in place with communications service providers to utilize their emergency services as described in NEI 12-01, Section 4.10. Corrective Action 12 in PIP C-12-2195.	Started
52	Purchase debris removal equipment that is also capable of towing all FLEX equipment. See Corrective Action 58 in PIP C-12-2291.	Started
53	Provide additional portable FLEX equipment such as pumps, air compressors, and generators to be purchased with specific identifiers/labels maintained in the Equipment Data Base (EDB). See Corrective Action 59 in PIP C-12-2291.	Started
54	Develop periodic surveillance procedures and Operator rounds to verify that all FLEX equipment is in its proper storage location and not degraded. See Corrective Action 60 in PIP C-12-2291.	Not Started
55	Develop Regional Response Center Playbook. See Corrective Action 61 in PIP C-12-2291.	Started
56	Complete staffing studies and ensure adequate personnel will be available to support the FLEX mitigation strategies and associated activities. See Corrective Action 7 in PIP C-12-4953.	Not Started

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Item	Overall Integrated Plan Open Item	Status
57	Develop procedural guidelines to use handheld instruments tied into local in plant components to monitor essential parameters. See Corrective Action 62 in PIP C-12-2291.	Not Started
58	Develop procedural guidelines to disconnect normal power supplies and attach alternate power cables from disconnect devices and portable generators for select components. See Corrective Action 63 in PIP C-12-2291.	Not Started
59	Develop procedural guidelines to deploy and install lighting in required areas. See Corrective Action 24 in PIP C-12-2291.	Not Started
60	Determine if Phase 3 ventilation needs (RRC equipment, additional procedural guidelines, etc.) are required. See Corrective Action 64 in PIP C-12-2291.	Started
61	Determine if Mobile Boration will be required from the RRC during Phase 3. See Corrective Action 65 in PIP C-12-2291.	Not Started
62	Determine if portable lighting will be required from the RRC during Phase 3. See Corrective Action 66 in PIP C-12-2291.	Not Started
63	Determine if portable fans/ducting will be required from the RRC during Phase 3. See Corrective Action 67 in PIP C-12-2291.	Started
64	Determine Phase 3 requirements related to Radiation Protection Equipment. See Corrective Action 68 in PIP C-12-2291.	Not Started
65	Determine Phase 3 requirements related to Commodities such as food and water. See Corrective Action 69 in PIP C-12-2291.	Not Started
66	Calculate diesel fuel consumption rates for the portable FLEX equipment and compare that to the available fuel stored in the Emergency Diesel Generator safety related underground storage tanks to determine if additional diesel fuel is needed from off-site resources during Phase 3. See Corrective Action 70 in PIP C-12-2291.	Complete (See Reference 4 in Section 8)
67	Select and purchase Phase 3 debris clearing equipment and/or transport vehicles if needed to move RRC equipment around the site. See Corrective Action 71 in PIP C-12-2291.	Started
68	Implement Flood mitigation activities per Corrective Action Program PIP C-12-0833.	Started
69	Complete initial testing of FLEX mitigation equipment prior to full implementation dates. See Corrective Action 72 in PIP C-12-2291.	Started
70	Establish a Special Emphasis Code in the EDB and Work Control program for FLEX equipment. See Corrective Action 73 in PIP C-12-2291.	Started

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Item	Overall Integrated Plan Open Item	Status
71	Obtain and store any additional equipment in FLEX Storage Facilities or Category I buildings needed to aid in the connection of the RRC equipment to plant components. See Corrective Action 74 in PIP C-12-2291.	Not Started
72	Revise RP/0/A/5000/007 (Natural Disaster and Earthquake) to move equipment at the SNSWP if flooding is imminent. See Corrective Action 79 in PIP C-12-2291.	Complete (See Reference 5 in Section 8)

b. Open Items added after February 28, 2013

Item	Overall Integrated Plan Open Item	Status
73	Formally evaluate/document potential deployment route concerns such as soil liquefaction discussed in NEI 12-06. See Corrective Action 86 in PIP C-12-2291.	Not Started
74	Document seismic qualification (robustness in accordance with NEI 12-06) of assured RN to KF make up piping on Unit 1. See Corrective Action 87 in PIP C-12-2291.	Started
75	Add new FWST low/high pressure borated water injection pump suction connection. See Corrective Action 83 and 84 in PIP C-12-2291 (ECR-6787 and ECR-6788)	Not Started

c. Draft Safety Evaluation

Draft Safety Evaluation Open Item	Status
The Draft Safety Evaluation has not yet been provided by the NRC.	N/A

7. Potential Draft Safety Evaluation Impacts

There are no potential impacts to the Draft Safety Evaluation identified at this time.

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8. References

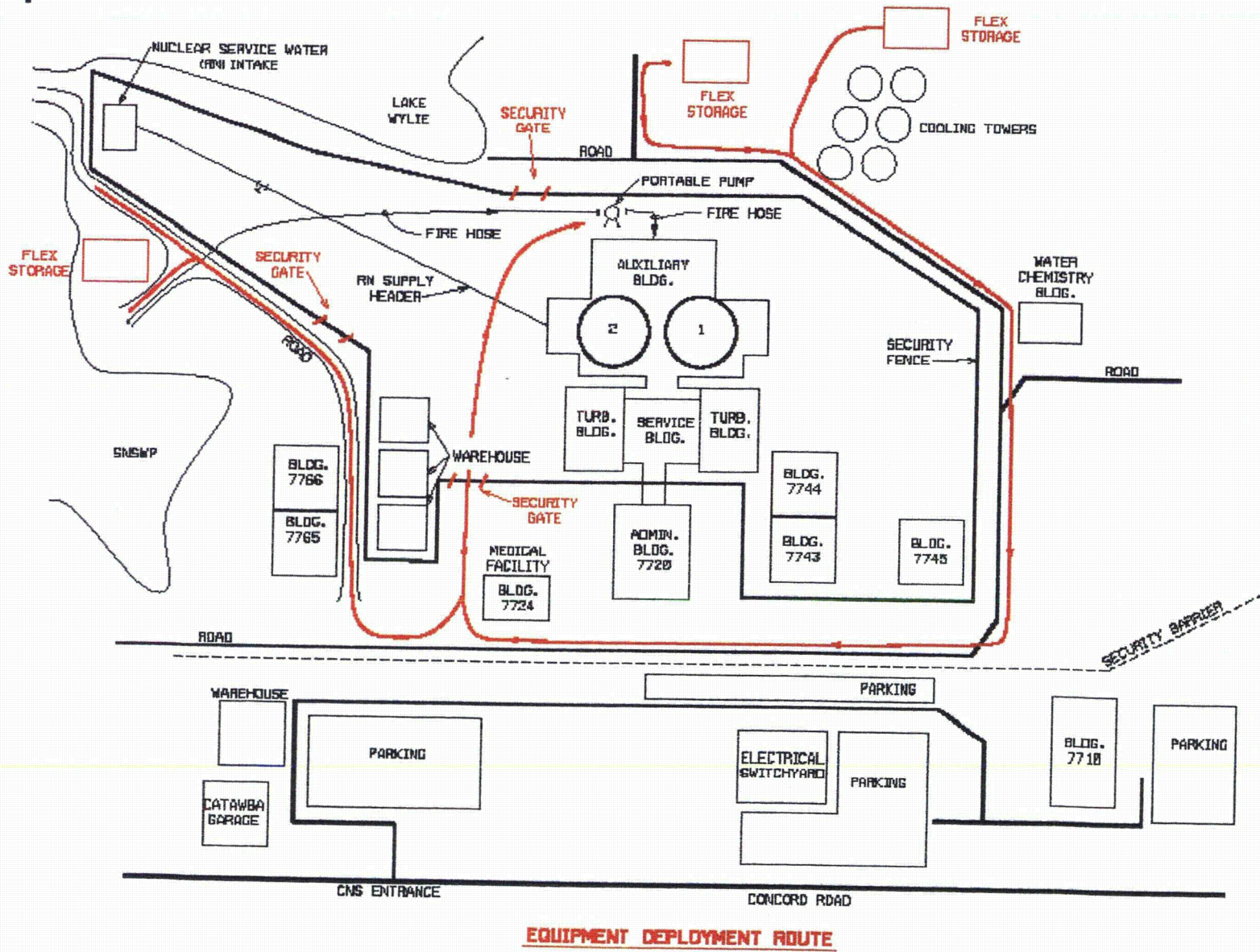
The following references support the updates to the Overall Integrated Plan described in this attachment .

- 1) Catawba Nuclear Station, Unit Nos. 1 and 2, Overall Integrated Plan in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events (Order Number EA-12-049), dated February 28, 2013
- 2) NRC Order Number EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," dated March 12, 2013
- 3) Justification for closure of Open Item 47 in the Overall Integrated Plan is contained in Actual Corrective Action 7 of PIP C-12-2195.
- 4) Justification for closure of Open Item 66 in the Overall Integrated Plan is contained in Actual Corrective Action 70 of PIP C-12-2291.
- 5) Justification for closure of Open Item 66 in the Overall Integrated Plan is contained in Actual Corrective Action 79 of PIP C-12-2291.

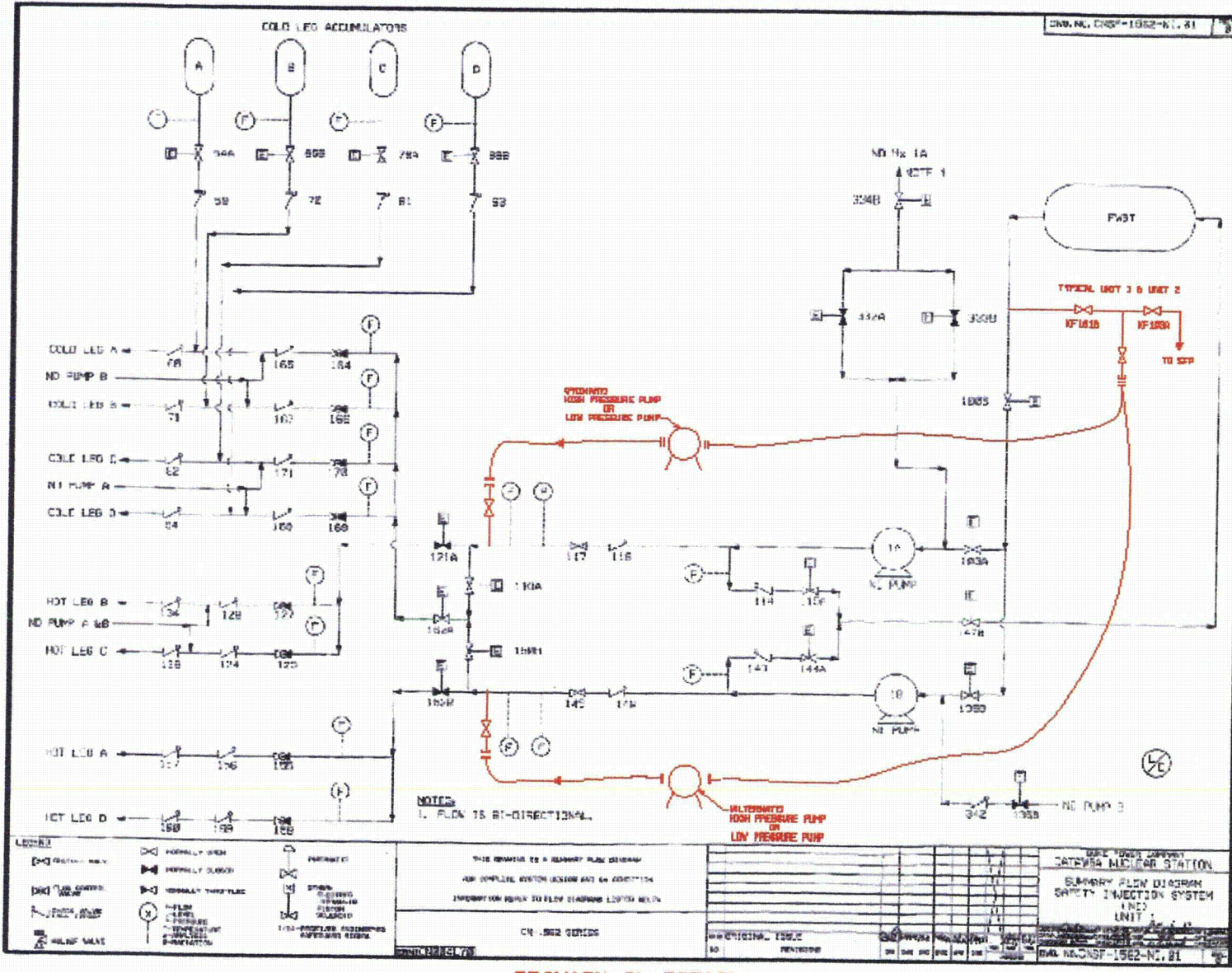
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**ATTACHMENT 1 TO ENCLOSURE
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CATAWBA NUCLEAR STATION (CNS), UNITS 1 AND 2
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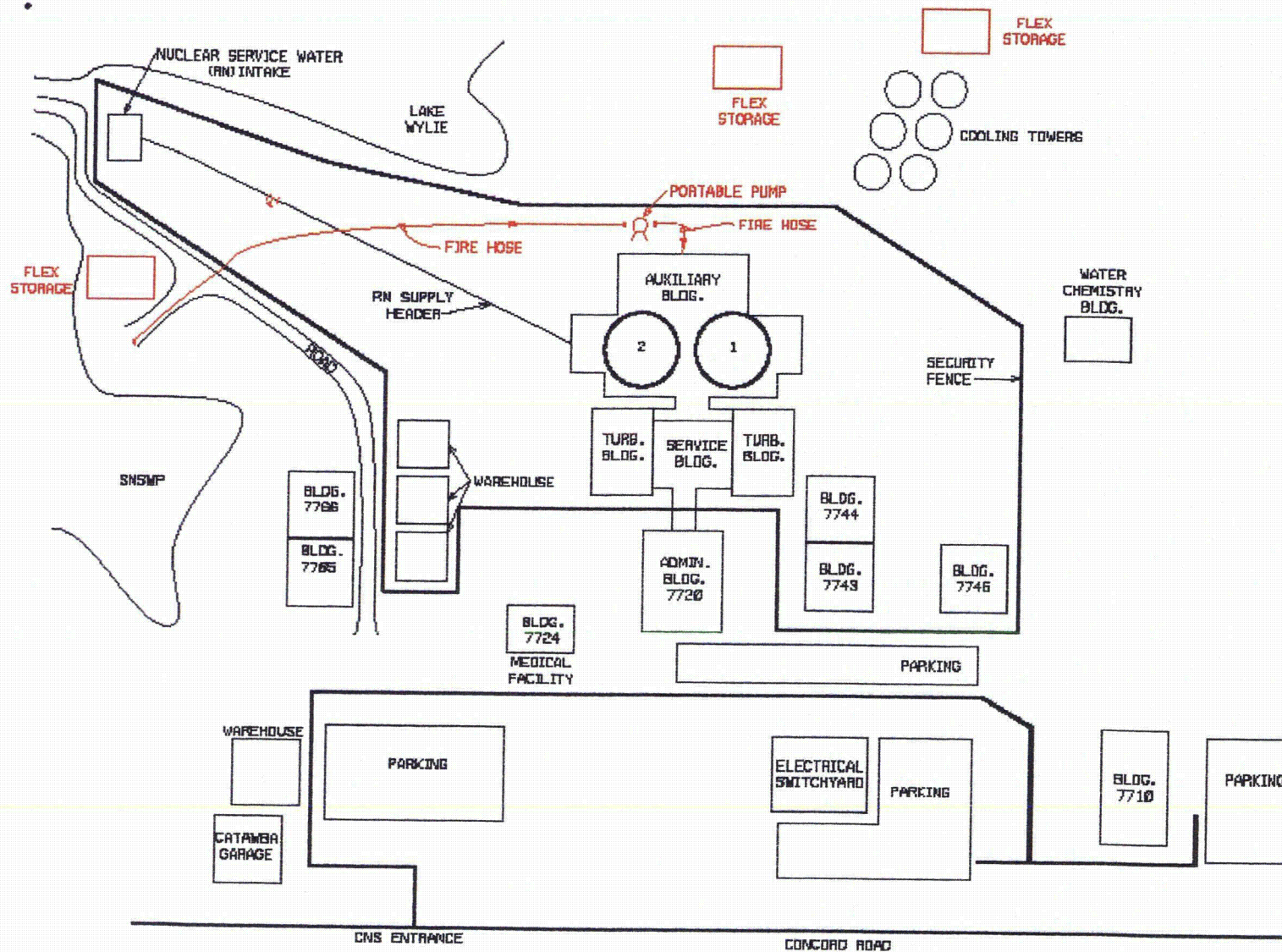
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CNS FIRST SIXTH MONTH STATUS REPORT (ORDER EA-12-049)**

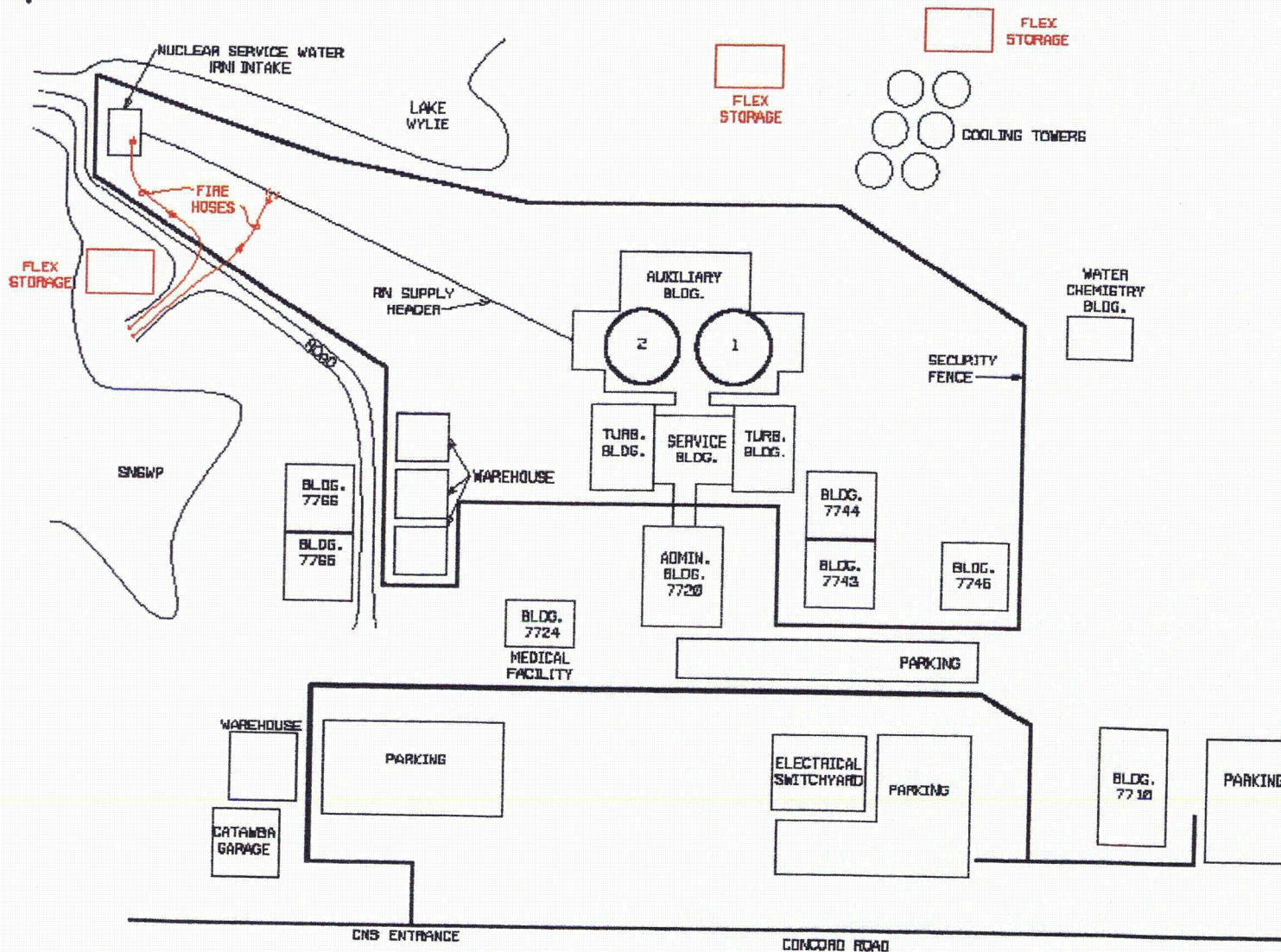


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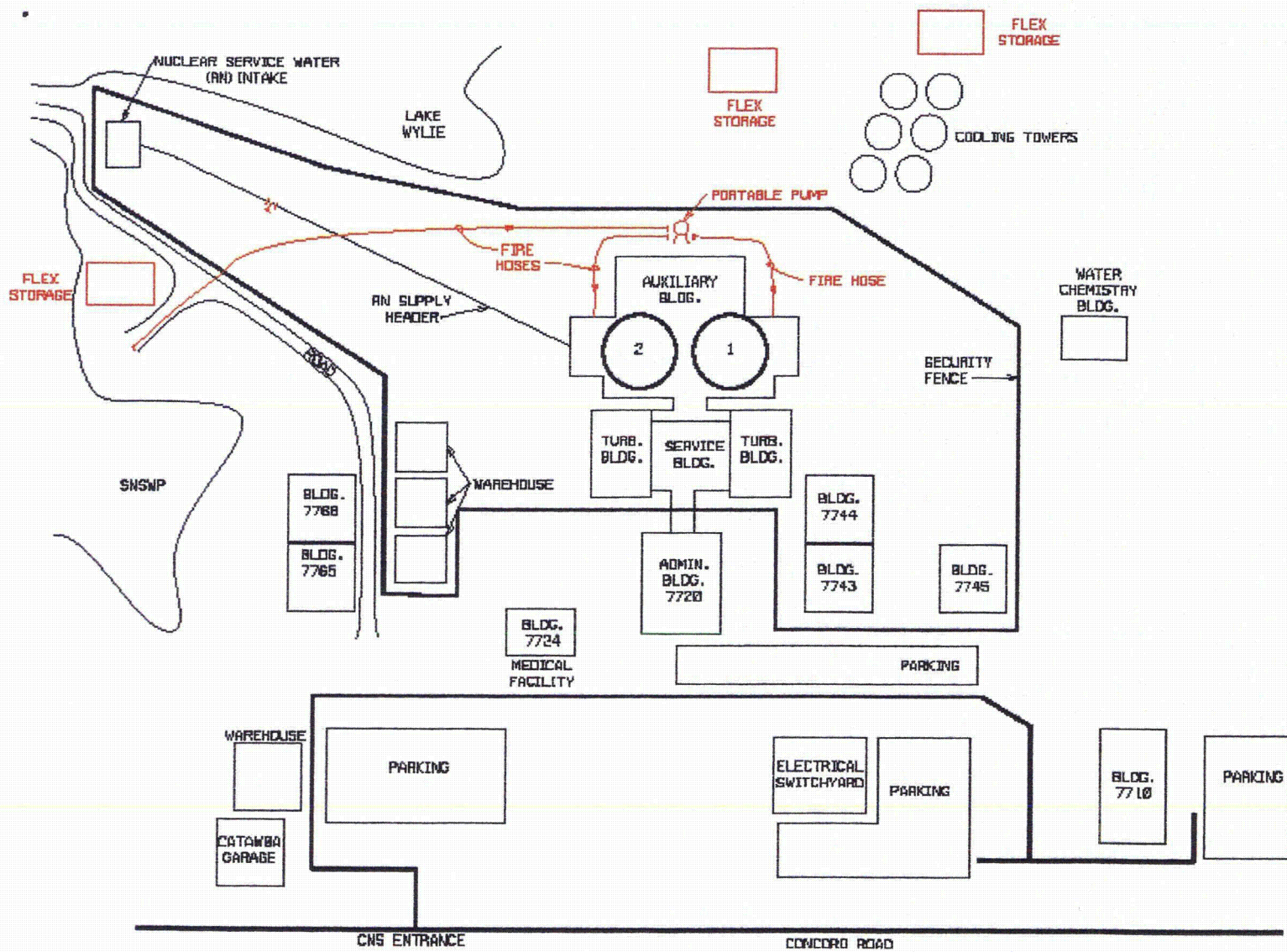
PORTABLE PUMP SUPPLY TO CONTAINMENT SPRAY

**ENCLOSURE
CNS FIRST SIXTH MONTH STATUS REPORT (ORDER EA-12-049)**



PORTABLE PUMP SUPPLY TO ESSENTIAL SERVICE WATER HEADER / STORAGE FACILITY LOCATIONS

**ENCLOSURE
CNS FIRST SIXTH MONTH STATUS REPORT (ORDER EA-12-049)**



PORTABLE PUMP SUPPLY TO SG's