

**DUKE POWER COMPANY**

P.O. BOX 33189  
CHARLOTTE, N.C. 28242

HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

TELEPHONE  
(704) 373-4531

April 11, 1983

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief  
Licensing Branch No. 4

Re: Catawba Nuclear Station  
Docket Nos. 50-413 and 50-414

Dear Mr. Denton:

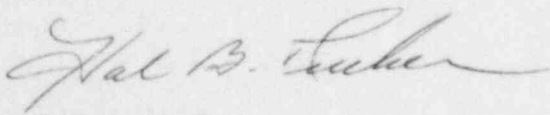
On February 22, 1983 the NRC issued the Safety Evaluation Report (SER) for the Catawba Nuclear Station. The design of the diesel generator intake and exhaust system is noted as an open item in Section 1.7. As discussed further in Section 9.5.8:

- 1) The applicant has not submitted sufficient information on the blockage of the intake and exhaust openings as a result of ice and freezing rain.
- 2) The applicant has not submitted any drawings on the redesigned intake and exhaust structures.

In response to these items the following information is provided.

- 1) The intake and exhaust structure louvers are recessed in the structural openings and protective overhangs are provided in accordance with ASHRAE recommendations for "Inlet and Outlet Design for Weather and Dust Protection". Louver spacing is greater than 4 inches between blades, thus providing adequate space for ice buildup on the blades without encouraging blockage. As previously stated, velocity and corresponding pressure drop are low enough to prevent blade icing from compromising the intake and exhaust system's performance.
- 2) Attached are revised general arrangement drawings which show the redesigned diesel generator intake and exhaust structures. These figures will be included in Revision 8 to the FSAR.

Very truly yours,



Hal B. Tucker

ROS/php  
Attachment

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PDR ADOCK 05000413  
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Boo!

Mr. Harold R. Denton, Director  
April 11, 1983  
Page 2

cc: Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30303

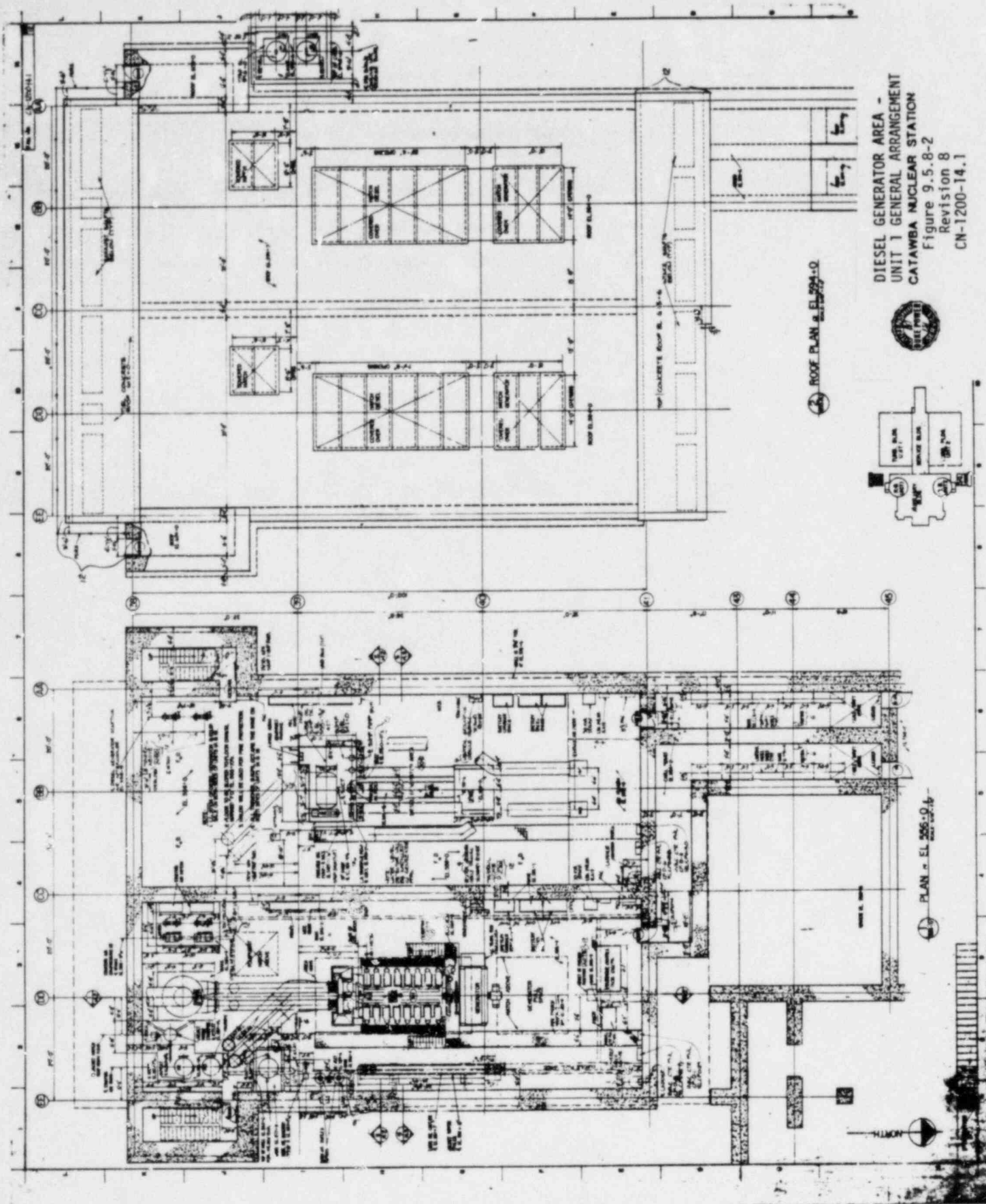
Mr. P. K. Van Doorn  
NRC Resident Inspector  
Catawba Nuclear Station

Mr. Robert Guild, Esq.  
Attorney-at-Law  
P.O. Box 12097  
Charleston, South Carolina 29412

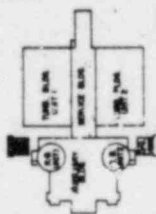
Palmetto Alliance  
2135½ Devine Street  
Columbia, South Carolina 29205

Mr. Jesse L. Riley  
Carolina Environmental Study Group  
854 Henley Place  
Charlotte, North Carolina 28207

Mr. Henry A. Presler, Chairman  
Charlotte-Mecklenburg Environmental Coalition  
943 Henley Place  
Charlotte, North Carolina 28207



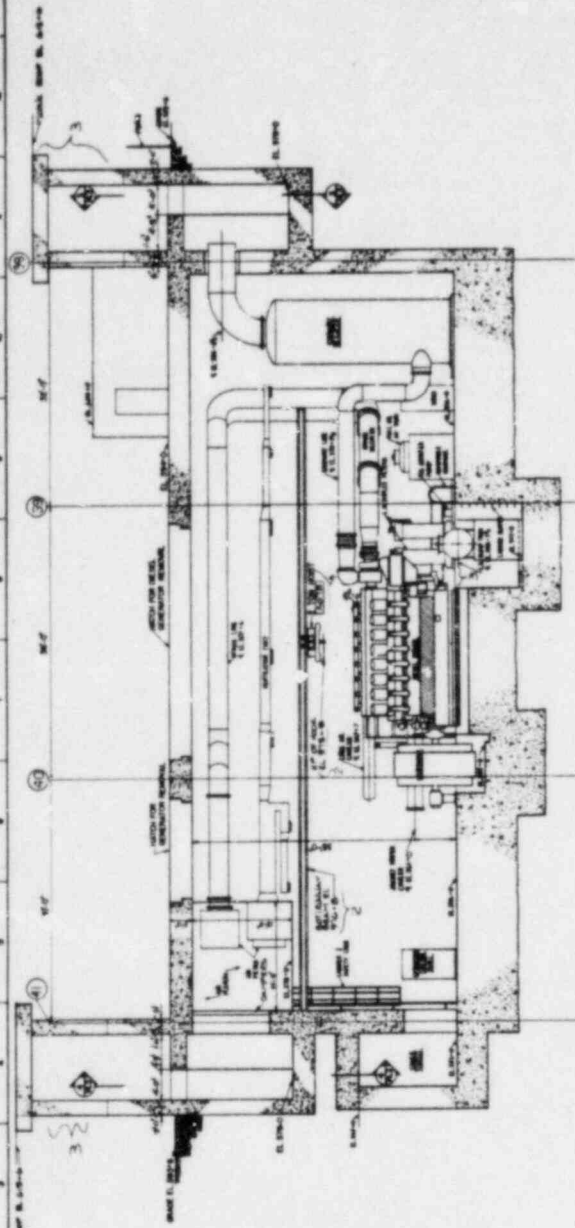
DIESEL GENERATOR AREA -  
 UNIT 1 GENERAL ARRANGEMENT  
 CATAWBA NUCLEAR STATION  
 Figure 9.5.8-2  
 Revision 8  
 CN-1200-14.1



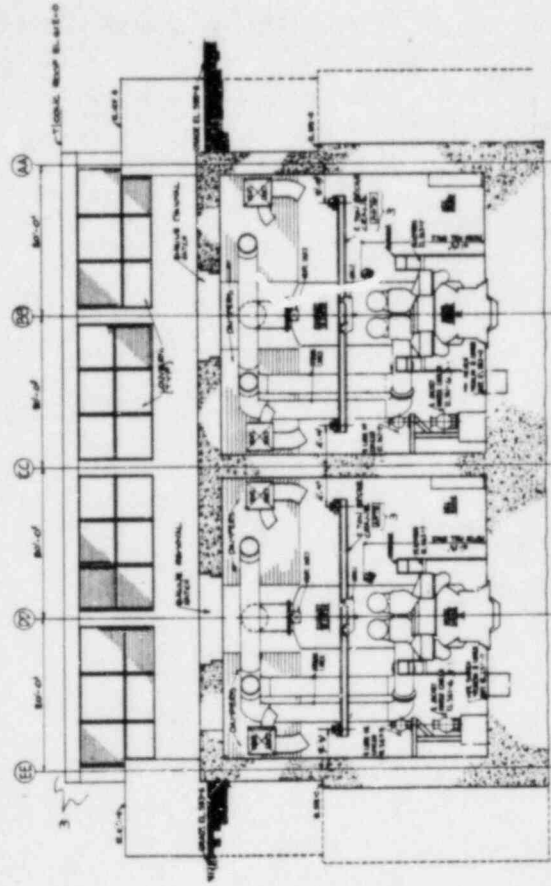
ROOF PLAN - EL 524.0  
 SEE DETAIL

PLAN - EL 506.0  
 SEE DETAIL

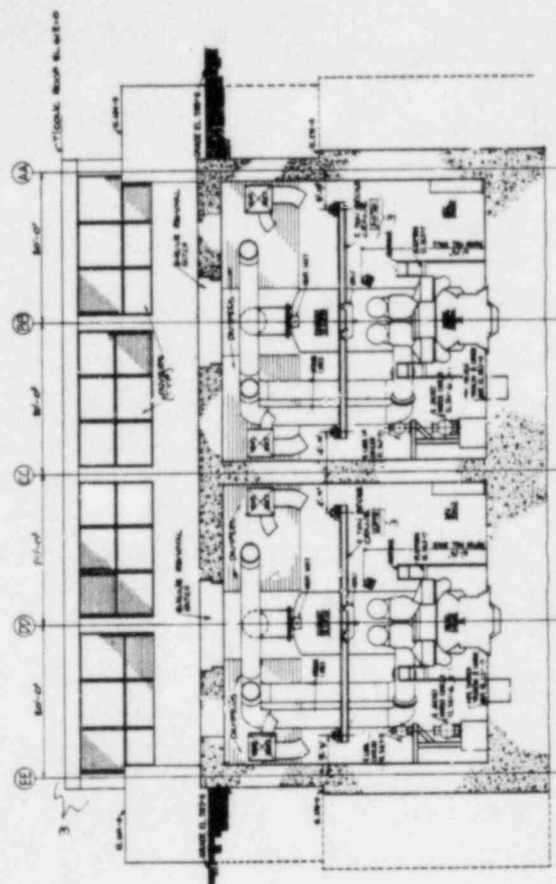
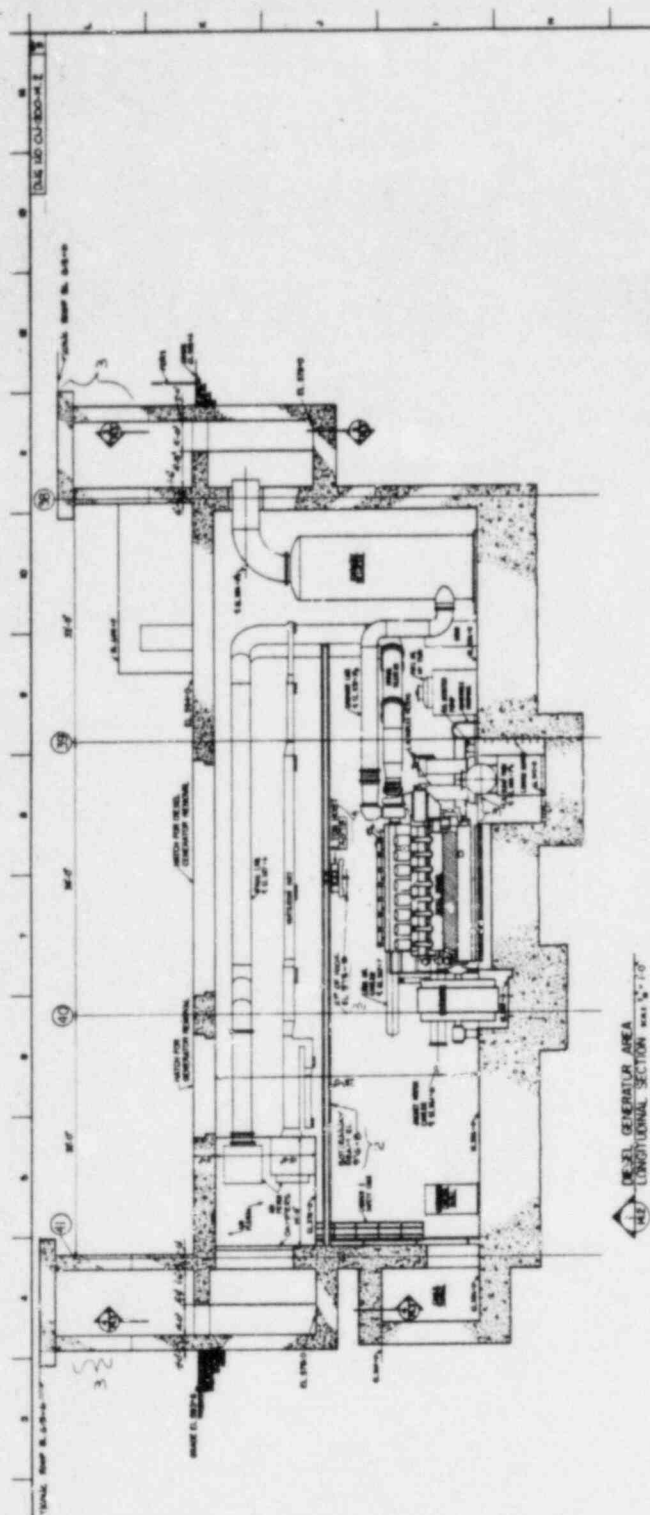
DIESEL GENERATOR AREA -  
UNIT 1 GENERAL ARRANGEMENT  
CATAWBA NUCLEAR STATION  
Figure 9.5.8-3  
Revision 8  
CN-1200-14.2



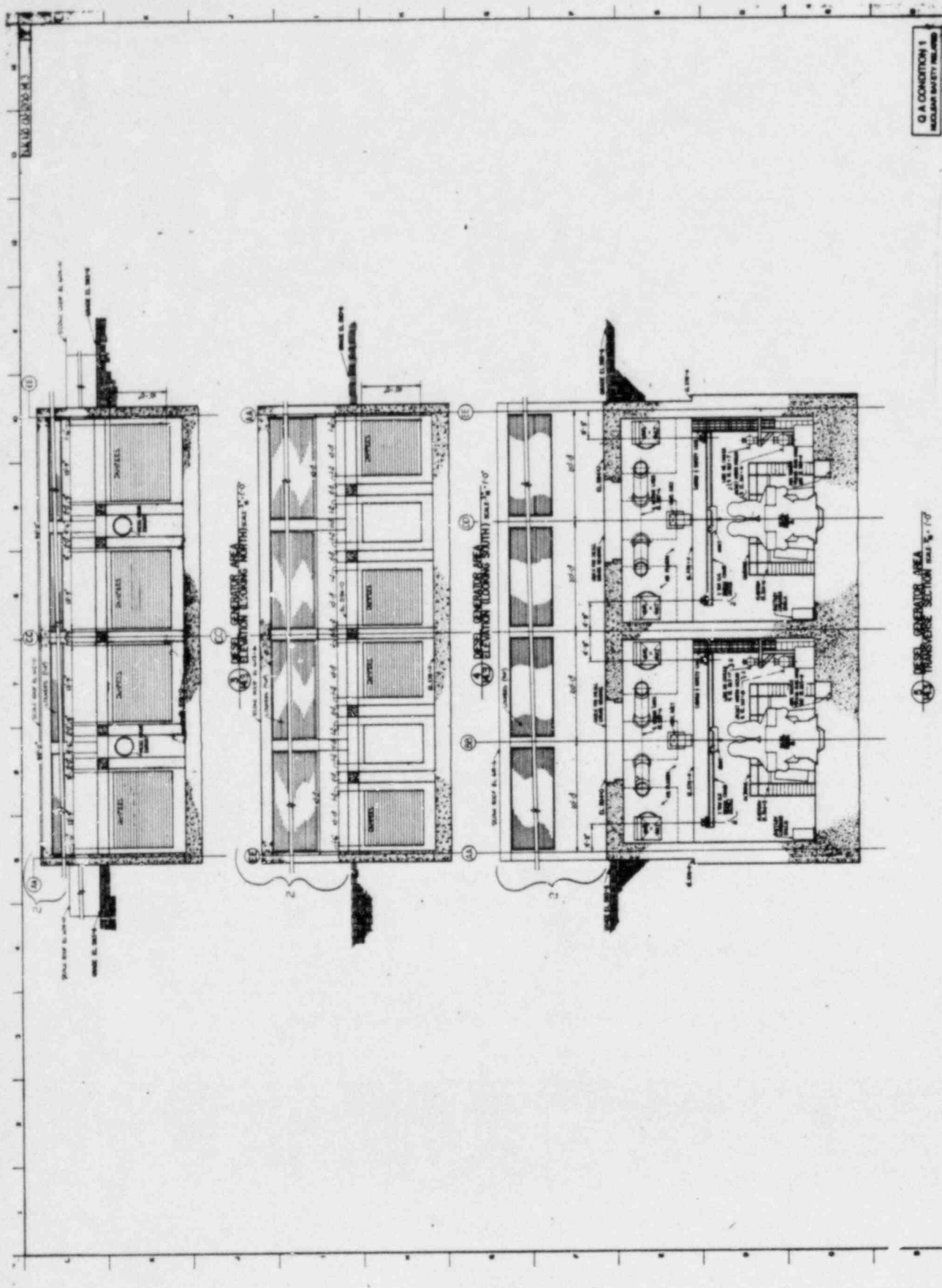
DIESEL GENERATOR AREA  
LONGITUDINAL SECTION



DIESEL GENERATOR AREA  
TRANSVERSE SECTION







DIESEL GENERATOR AREA -  
UNIT 1 GENERAL ARRANGEMENT  
CATAWBA NUCLEAR STATION  
Figure 9.5.8-4  
Revision 8  
CN-1200-14.3

