

# NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY  
WESTERN MASSACHUSETTS ELECTRIC COMPANY  
HOLYOKE WATER POWER COMPANY  
NORTHEAST UTILITIES SERVICE COMPANY  
NORTHEAST NUCLEAR ENERGY COMPANY

General Offices • Selden Street, Berlin, Connecticut

P.O. BOX 270  
HARTFORD, CONNECTICUT 06141-0270  
(203) 666-6911

April 5, 1983

Docket No. 50-423  
AEC-MP3-309  
B10752

Director of Nuclear Reactor Regulation  
Mr. B. J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

References: (1) W. G. Council letter to B. J. Youngblood, MP-3 Response to the Requests for Additional Information that Resulted from the Acceptance Review, dated March 31, 1983.

Dear Mr. Youngblood:

Millstone Nuclear Power Station, Unit No. 3:  
Transmittal of FSAR Figures  
12.3-1 through 12.3-4 and 12.3-6 through 12.3-9

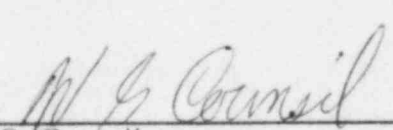
In Reference (1) forty (40) copies for distribution of FSAR Figures 12.3-1 through 12.3-4 and 12.3-6 through 12.3-9 were not forwarded because a typographical error was discovered just prior to the shipping of our acceptance review responses. As an interim measure we therefore attached one (1) set of figures to one (1) of the three (3) original signed versions of a response package. The remaining two (2) signed originals and thirty-seven (37) copies contained a substitute page indicating the figures would be forwarded later. Per Reference (1), we are now forwarding the remaining thirty-nine (39) sets for distribution, each of which has a copy of this transmittal memo attached.

Enclosure

Very truly yours,

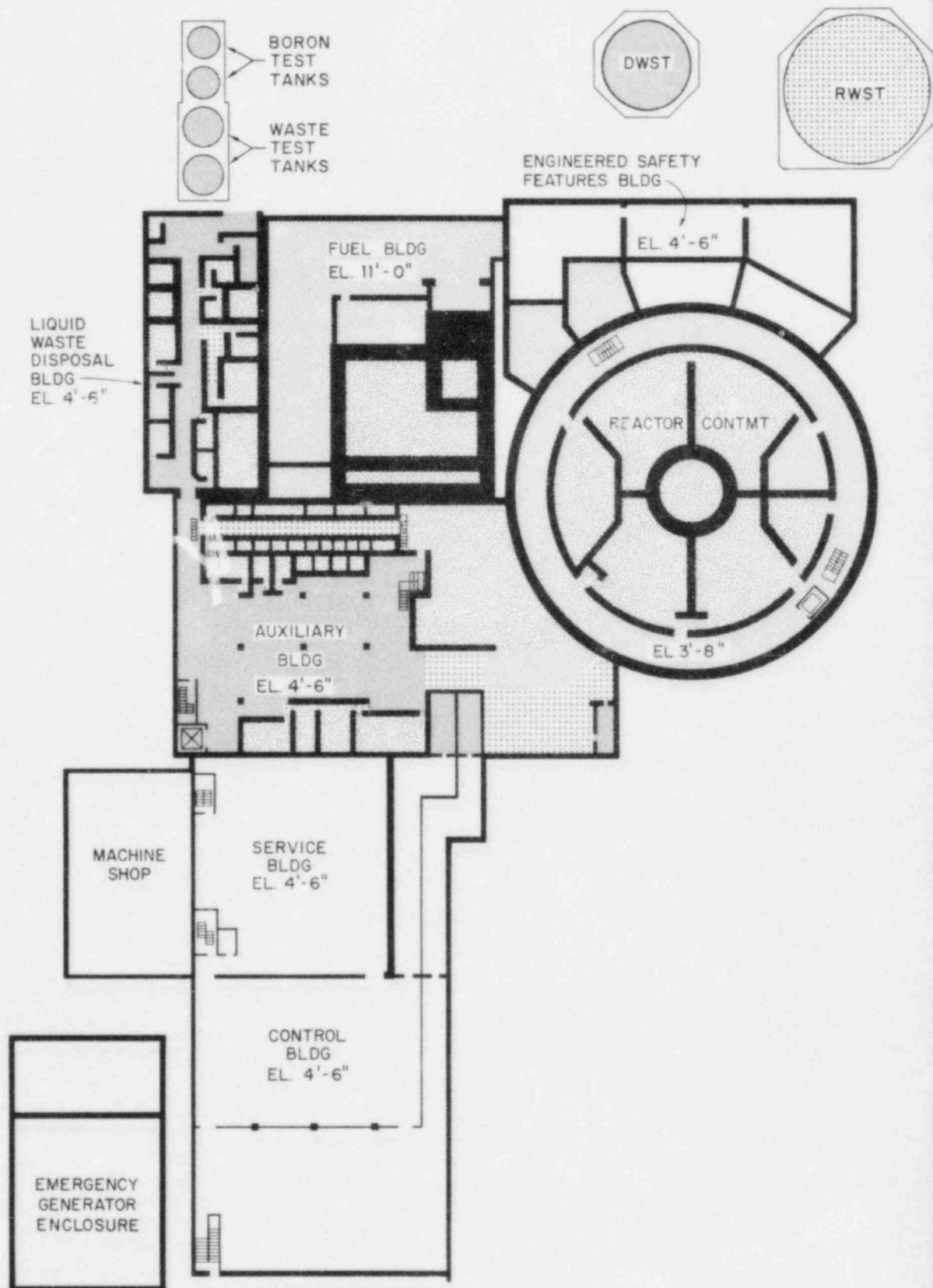
NORTHEAST NUCLEAR ENERGY COMPANY, ET AL

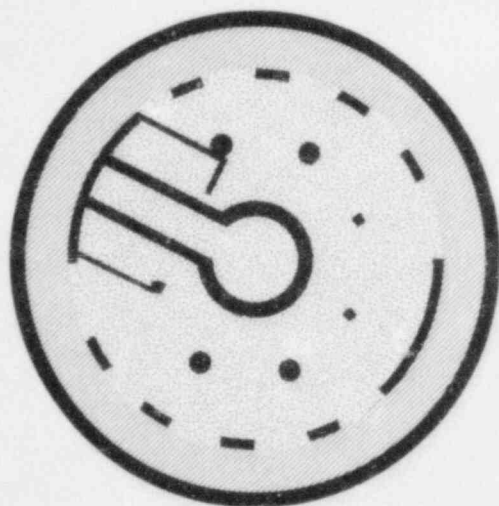
By NORTHEAST NUCLEAR ENERGY COMPANY, Their Agent

  
W. G. Council  
Senior Vice President

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PDR ADOCK 05000423  
A PDR

*Boo*  
*1/40*





PLAN EL. (-)24'-6"

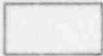
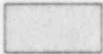
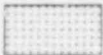
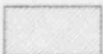
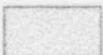
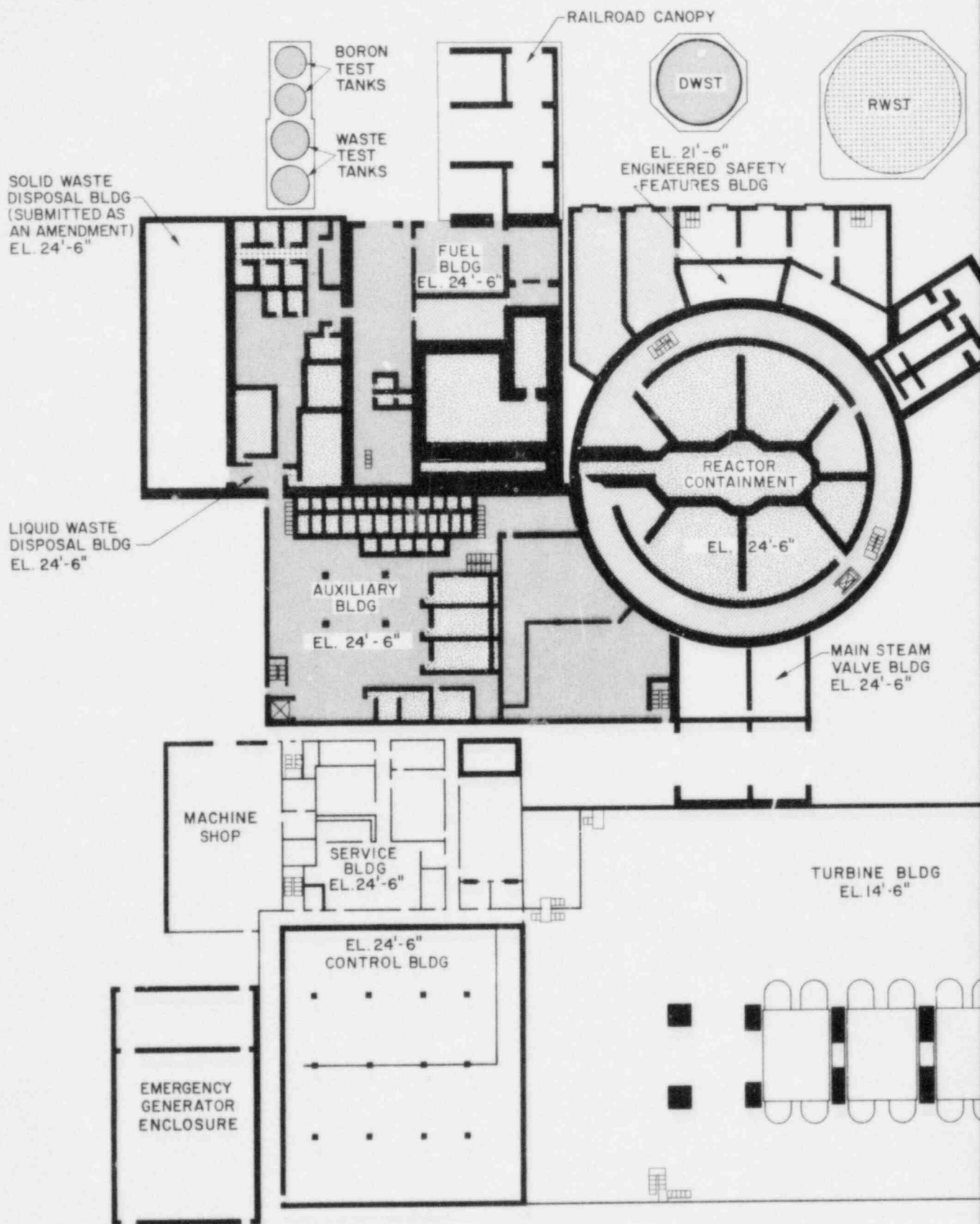
ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

FIG. 12.3-1  
DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(NORMAL OPERATIONS)

MILLSTONE NUCLEAR POWER STATION  
UNIT 3

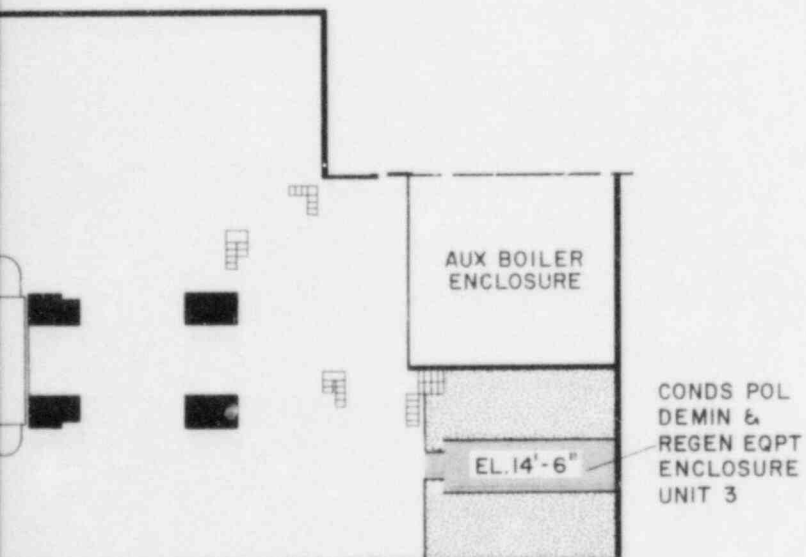
RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT



HYDROGEN  
RECOMBINER  
BLDG.  
EL. 24'-6"



ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

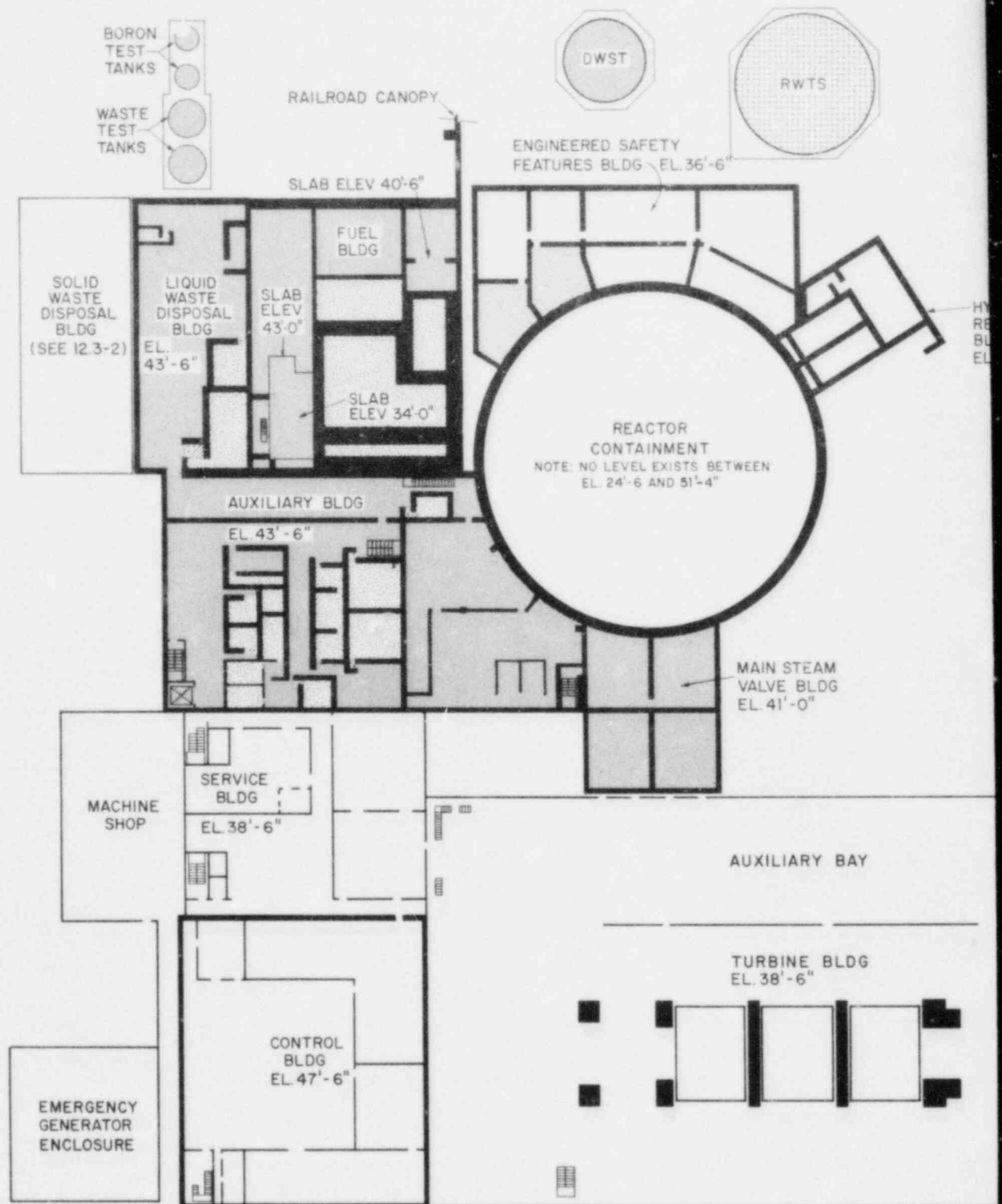


NOTE:  
SUMP AT 4'-6" TO  
BOTTOM OF DEMIN.  
FLOOR > 100.

FIG. 12.3-2  
DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(NORMAL OPERATIONS)

MILLSTONE NUCLEAR POWER STATION  
UNIT 3

RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT



DROGEN  
COMBINER  
DG  
37'-6"



ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

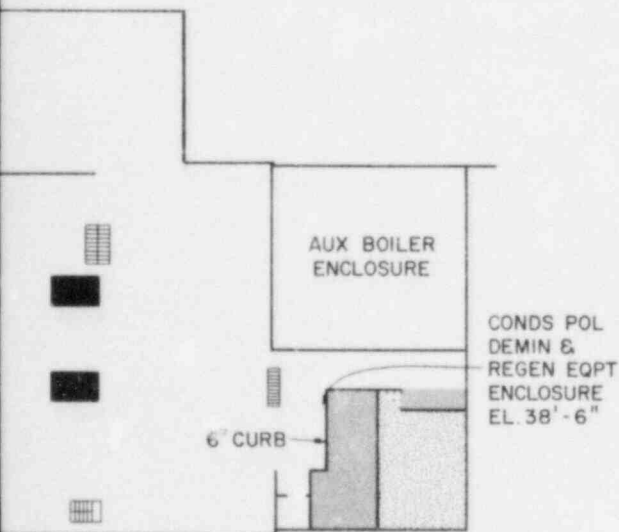


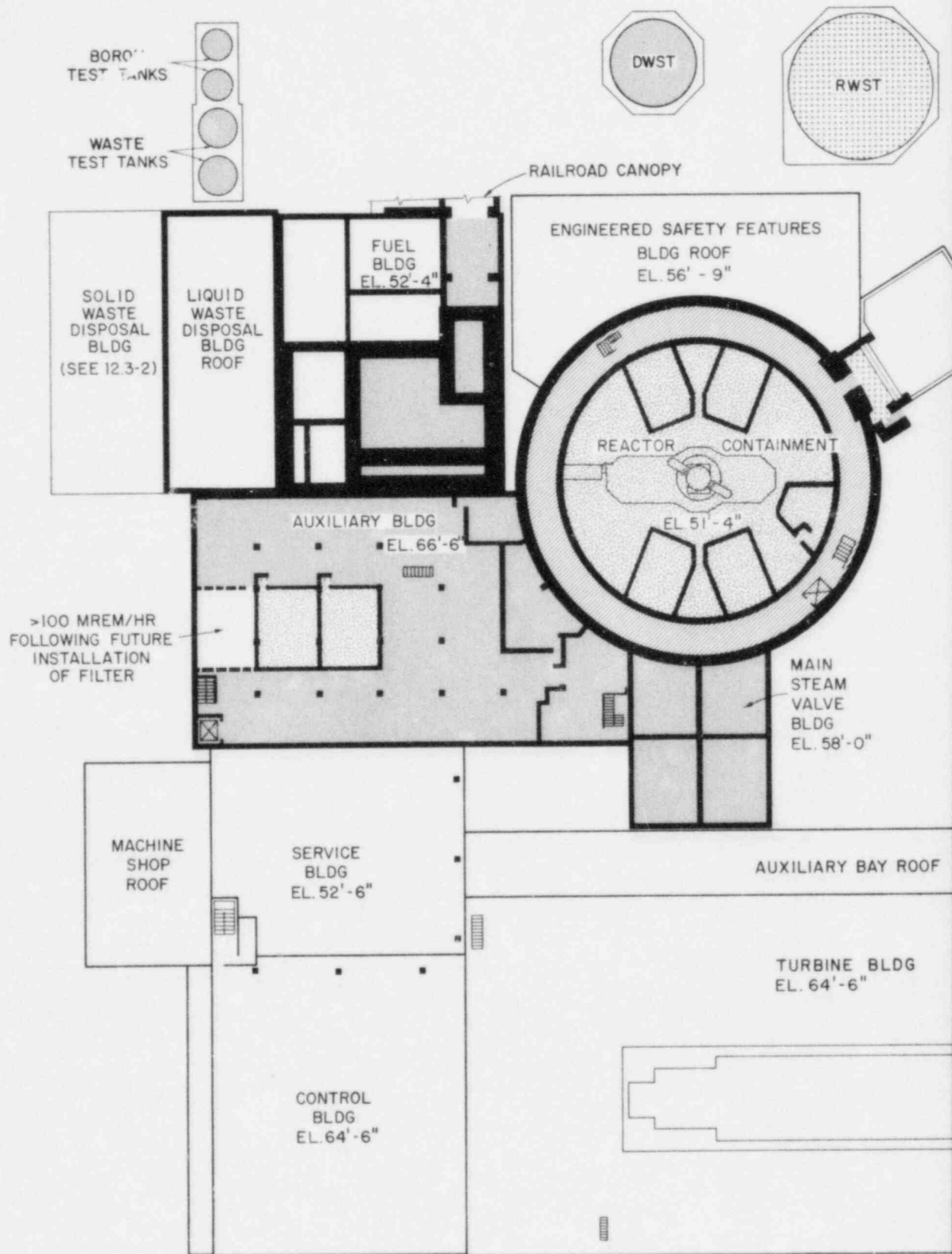
FIG. 12.3-3

DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(NORMAL OPERATIONS)

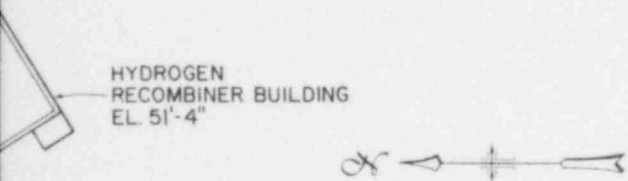
MILLSTONE NUCLEAR POWER STATION  
UNIT 3

RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT









ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

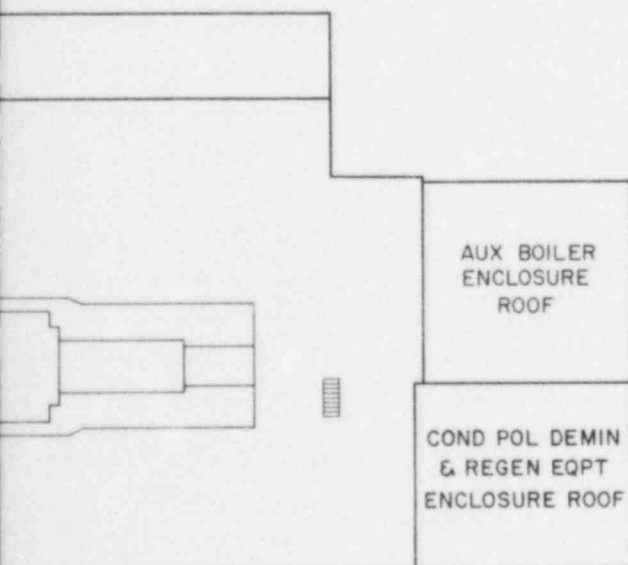
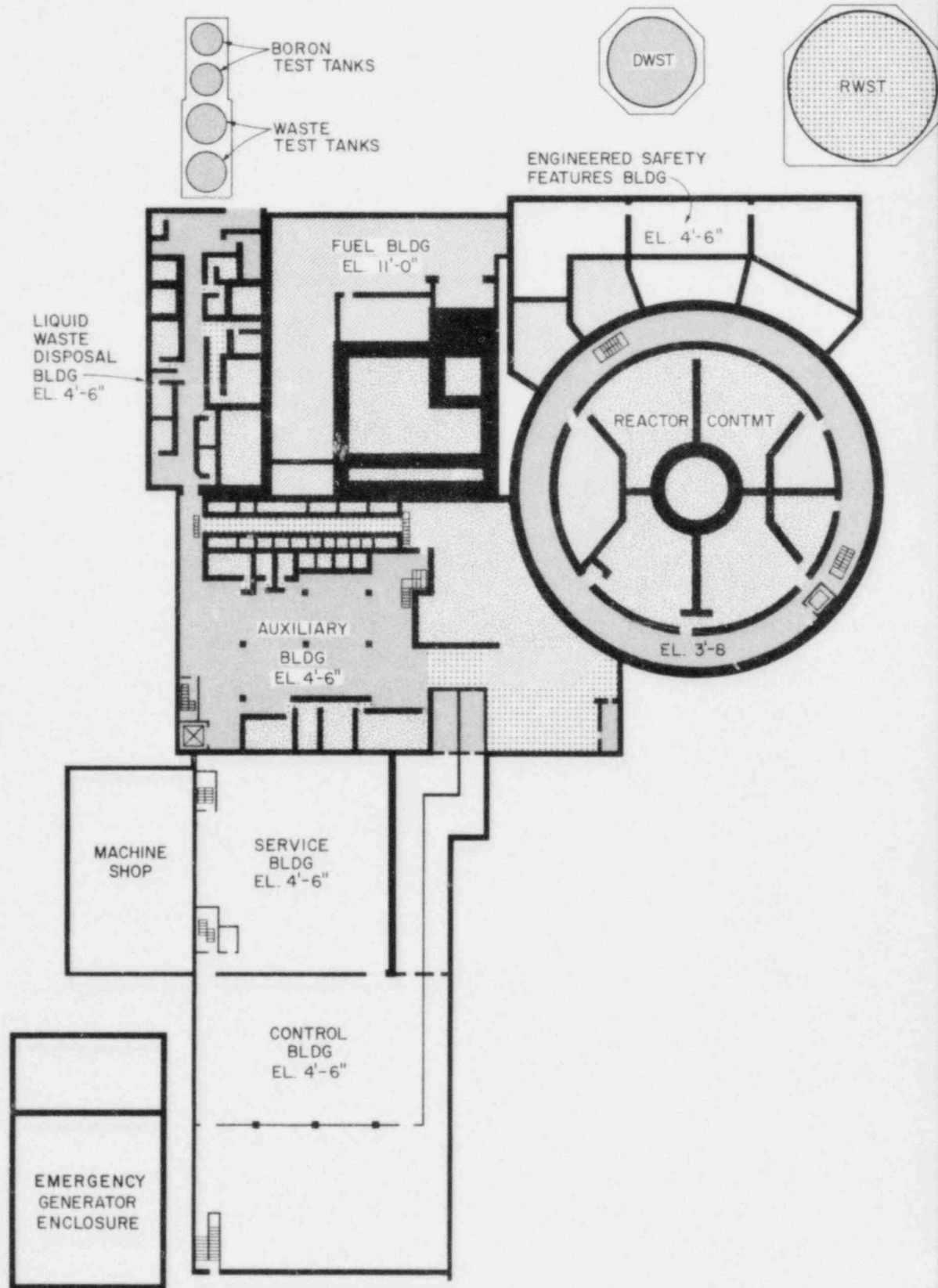
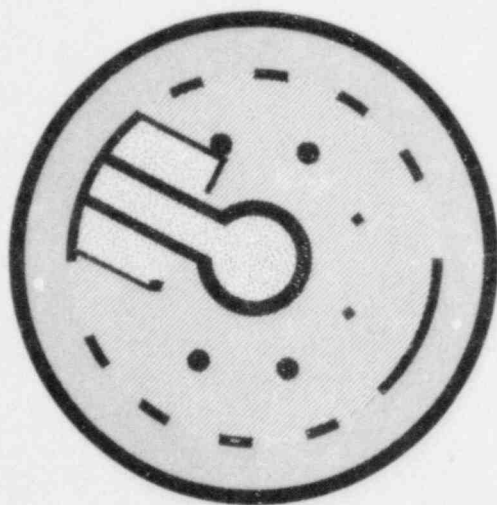
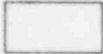
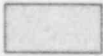
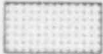
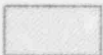
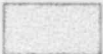


FIG. 12.3-4  
DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(NORMAL OPERATIONS)  
MILLSTONE NUCLEAR POWER STATION  
UNIT 3  
RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT





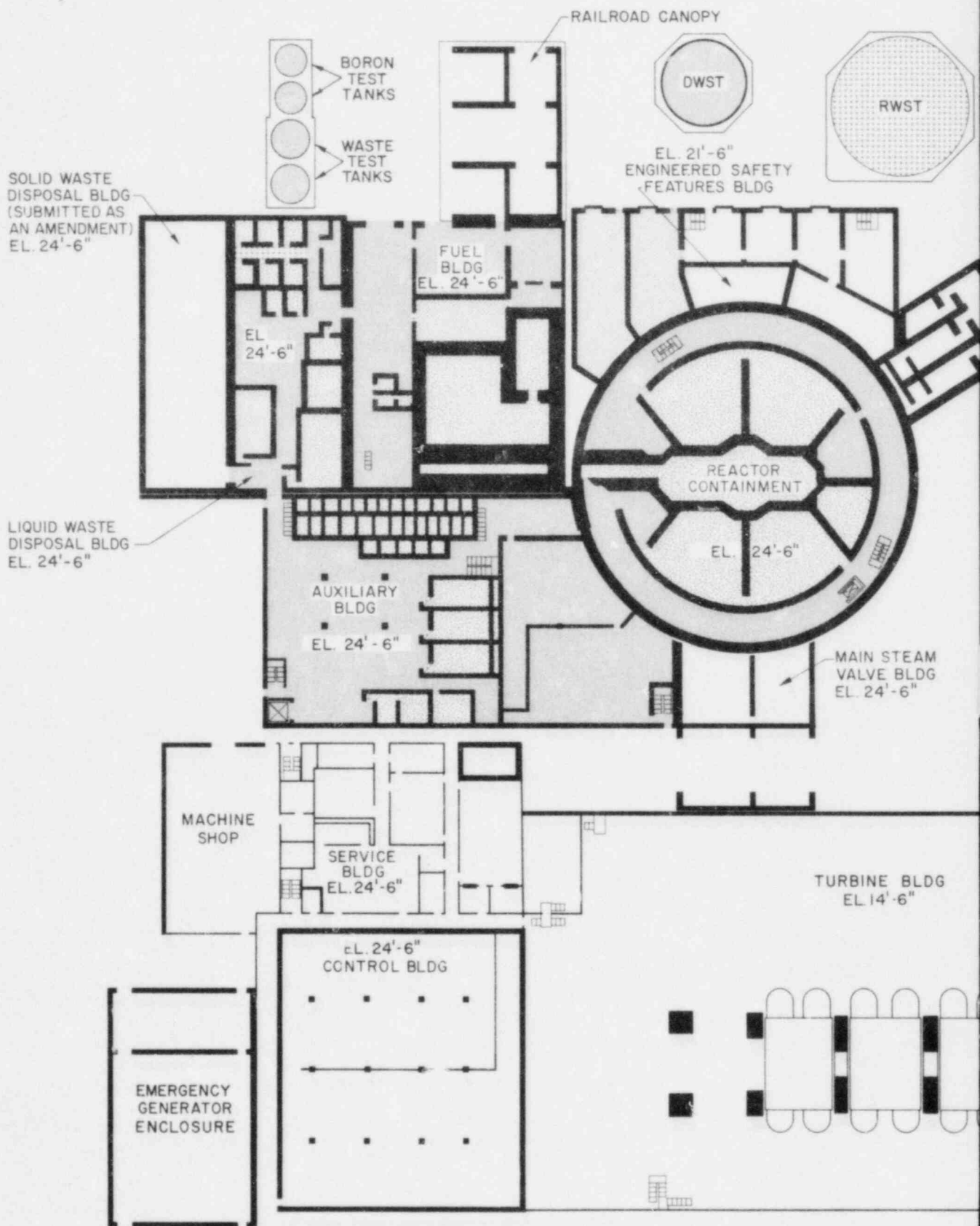
PLAN EL. (-)24'-6"

ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

NOTE:

DURING INITIAL COLD SHUTDOWN, THE RHR SYSTEM(RHS) PIPING AND HEAT EXCHANGERS MAY EXCEED THE ZONE V RADIATION LEVEL CRITERION UNTIL THE REACTOR COOLANT IS DILUTED BY RWST WATER

FIG. 12.3-6  
DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(SHUTDOWN/REFUELING)  
MILLSTONE NUCLEAR POWER STATION  
UNIT 3  
RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT

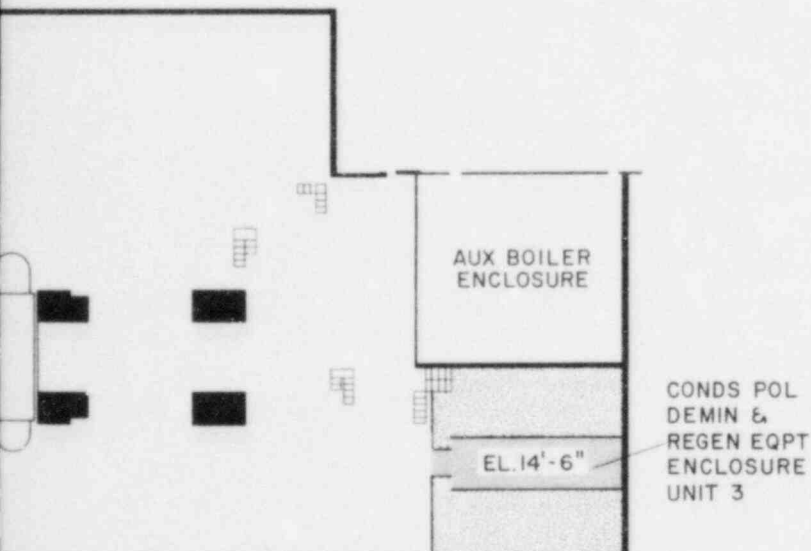


HYDROGEN  
RECOMBINER  
BLDG.  
EL. 24'-6"



ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

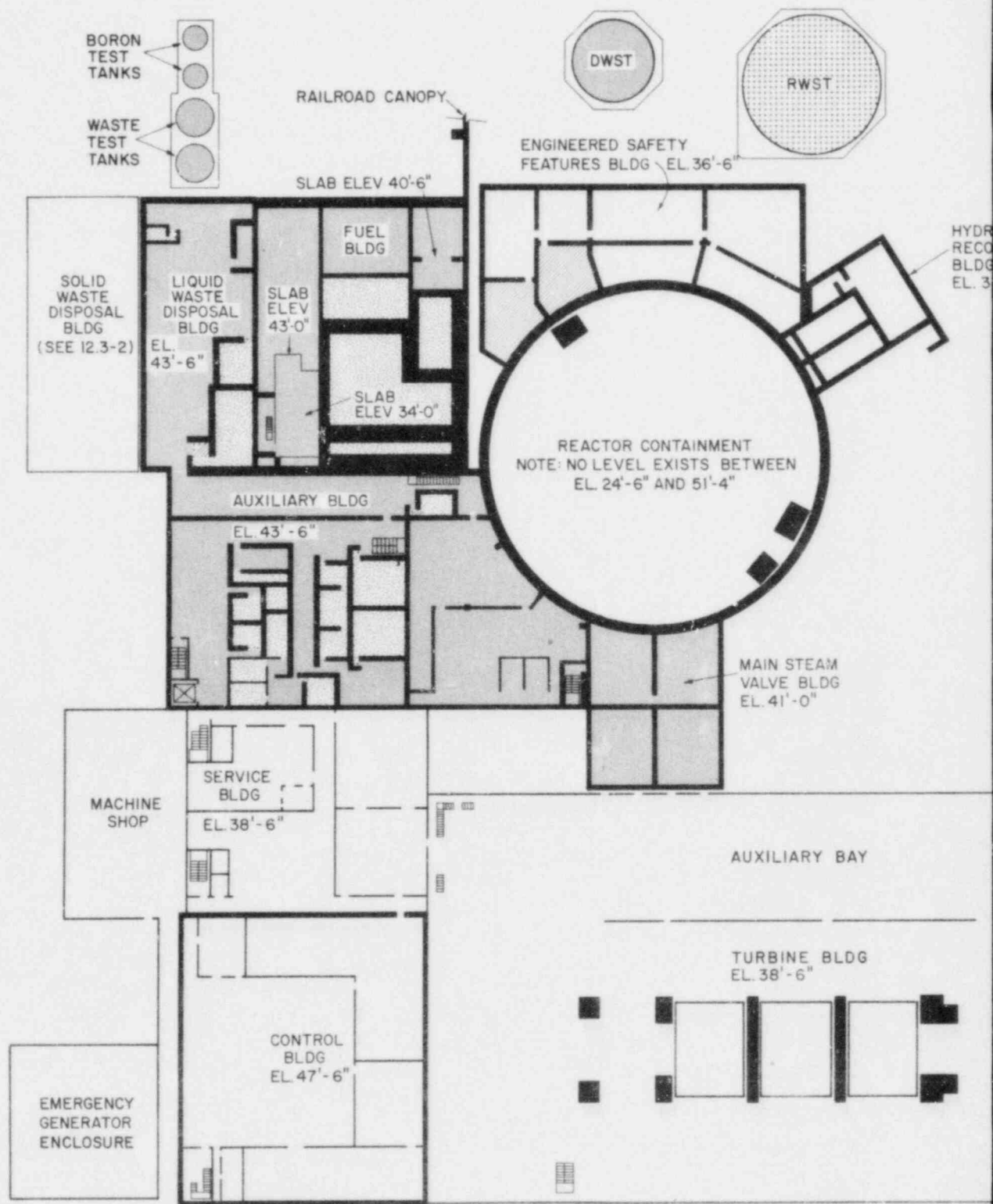
NOTE:  
DURING INITIAL COLD SHUTDOWN, THE RHR SYSTEM  
(RHS) PIPING AND HEAT EXCHANGERS MAY EXCEED  
THE ZONE V RADIATION LEVEL CRITERION UNTIL  
THE REACTOR COOLANT IS DILUTED BY RWST WATER



NOTE:  
SUMP AT 4'-6" TO  
BOTTOM OF DEMIN.  
FLOOR > 100.

FIG. 12.3-7  
DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(SHUTDOWN/REFUELING)

MILLSTONE NUCLEAR POWER STATION  
UNIT 3  
RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT



HYDROGEN  
COMBINER

7'-6"



ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

NOTE:

DURING INITIAL COLD SHUTDOWN, THE RHR SYSTEM (RHS) PIPING AND HEAT EXCHANGERS MAY EXCEED THE ZONE V RADIATION LEVEL CRITERION UNTIL THE REACTOR COOLANT IS DILUTED BY RWST WATER

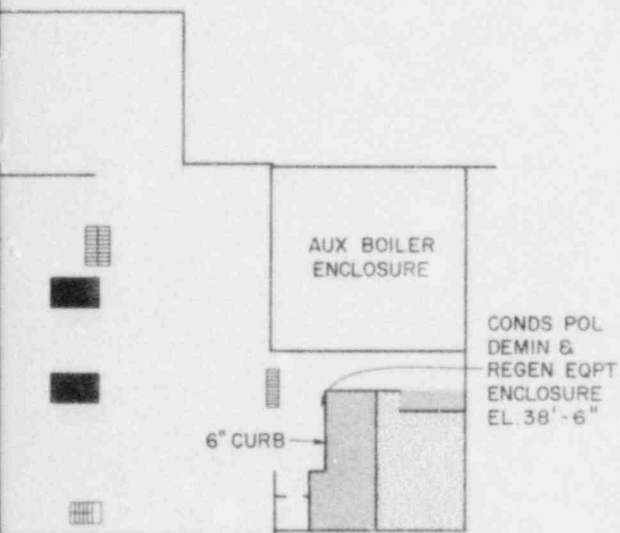


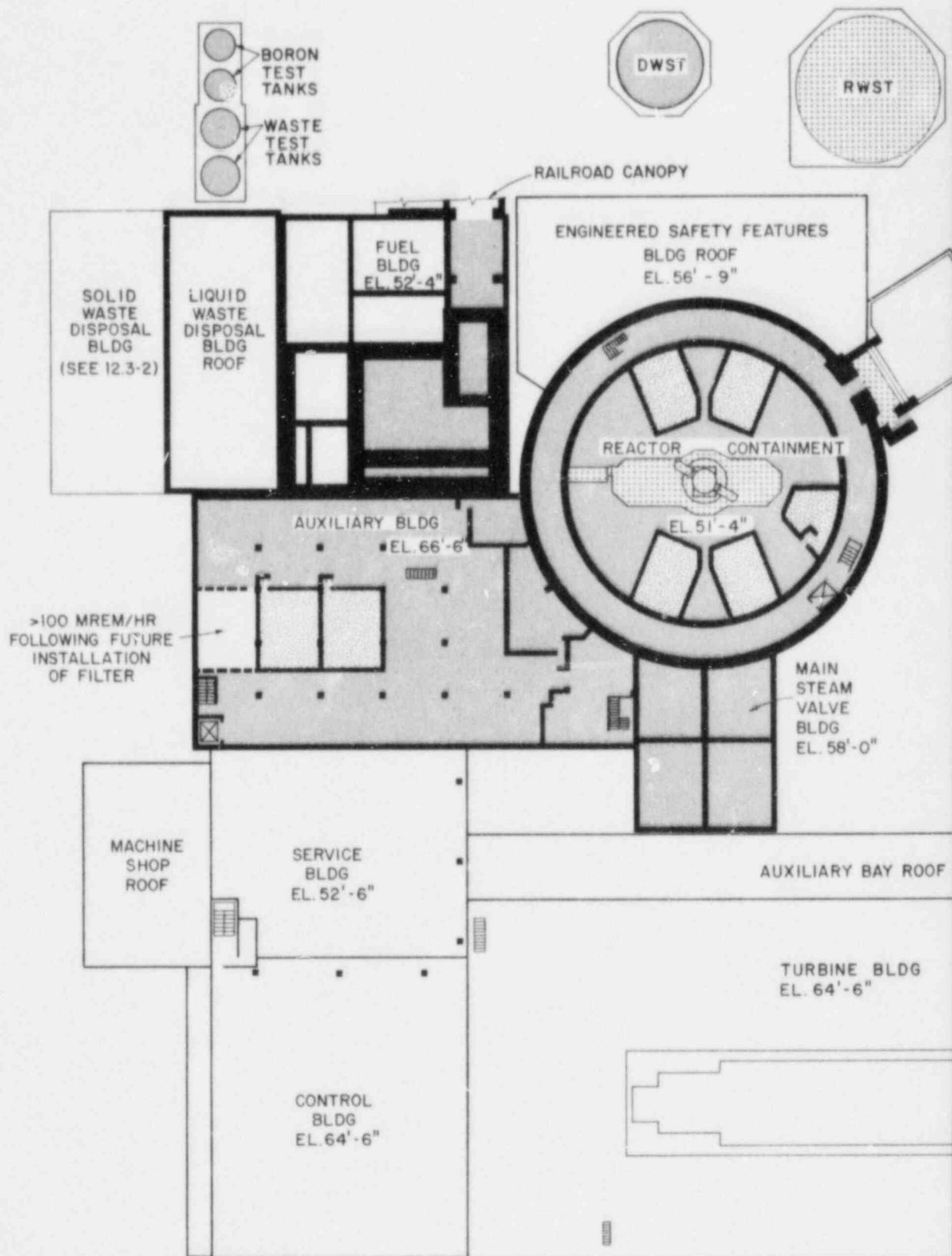
FIG. 12.3-8

DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(SHUTDOWN/REFUELING)

MILLSTONE NUCLEAR POWER STATION  
UNIT 3

RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT







ZONE	DOSE RATE (MREM/HR)	ZONE CODE
I	$\leq 0.25$	
II	$\leq 2.5$	
III	$\leq 15$	
IV	$\leq 100$	
V	$> 100$	

NOTE:

DURING INITIAL COLD SHUTDOWN, THE RHR SYSTEM (RHS) PIPING AND HEAT EXCHANGERS MAY EXCEED THE ZONE V RADIATION LEVEL CRITERION UNTIL THE REACTOR COOLANT IS DILUTED BY RWST WATER.

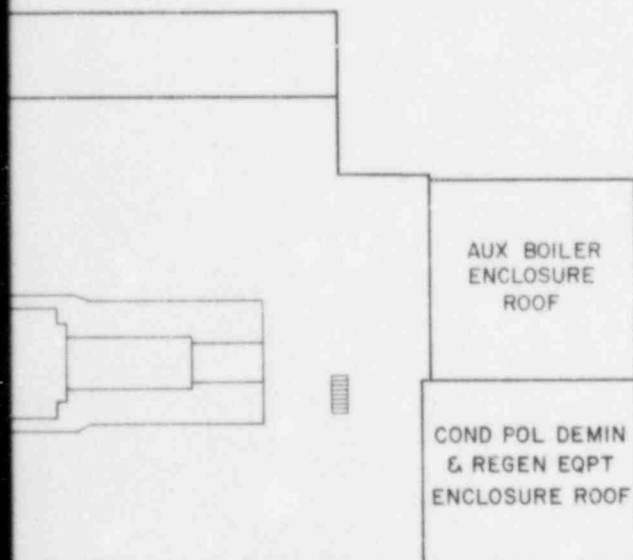


FIG. 12.3-9  
DESIGN BASIS RADIATION  
ZONES FOR SHIELDING  
(SHUTDOWN/REFUELING)

MILLSTONE NUCLEAR POWER STATION  
UNIT 3

RADIATION SHIELDING DESIGN  
AND ANALYSIS REPORT