

The Light company

Houston Lighting & Power

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June 11, 1987

ST-HL-AE-2257

File No.: G9.17

10CFR50

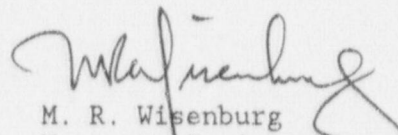
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 2055

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Revised FSAR Radiation Zone Figures

Attached are revised FSAR Figures 12.3.1-1 through 12.3.1-4 regarding the radiation zones (normal operation) for the reactor containment building (RCB), elevations (-)11'-3", (-)2'-0", 19'-0", and 37' 3". As a result of a reanalysis by Bechtel which includes the lifting of the pressurizer relief valve, area 308 SW could become a radiation zone 5 after the postulated lifting of a pressurizer relief valve. This is specifically noted on the attached figures.

The attached revised figures are provided for the staffs immediate use and will be incorporated in a future amendment. We believe that this information does not impact conclusions as previously documented in the Safety Evaluation Report (SER).

If you should have any questions on this matter, please contact Mr. M. E. Powell at (713) 993-1328.



M. R. Wisenburg
Manager, Engineering and Licensing

MEP/yd

Attachment: Revised FSAR Figures 12.3.1-1 through 12.3.1-4

L1/NRC/pn

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A PDR

A Division of Houston Industries Incorporated

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Houston Lighting & Power Company

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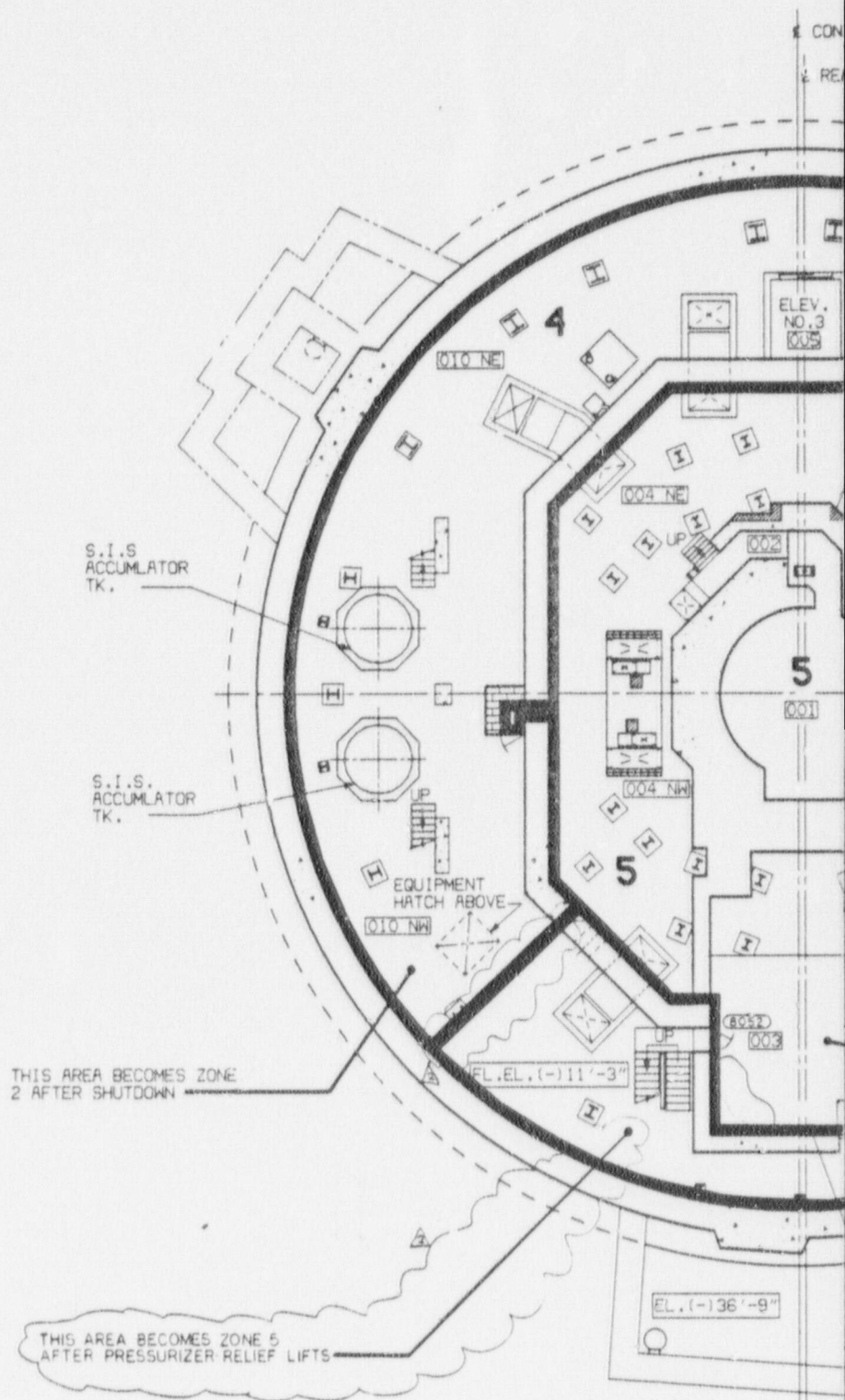
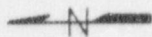
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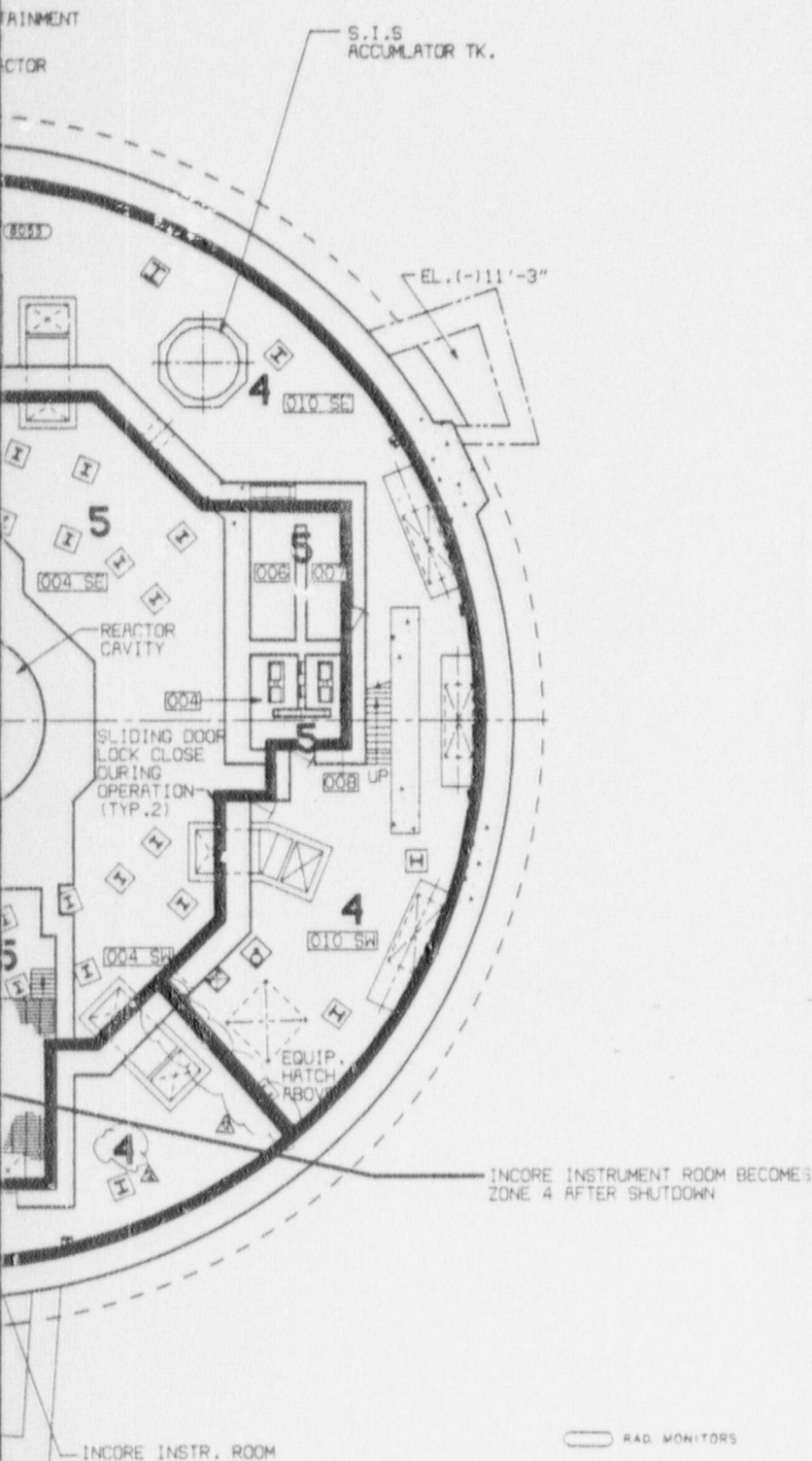
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TI APERTURE CARD

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PLANT RADIATION SHIELDING ZONES			
ZONE NUMBER	MAX. DOSE RATE (MR/HR.)	POSTING REQUIRED	ANTICIPATED ACCESS
1	≤ 0.5	NO	UNRESTRICTED ACCESS
2	≤ 2.5	NO	CONTROLLED ACCESS/ POSTING NOT REQUIRED
3	≤ 15	YES	CONTROLLED ACCESS/ ACCESSIBLE ON A PERIODIC BASIS
4	≤ 100	YES	CONTROLLED LIMITED ACCESS
5	> 100	YES	NORMALLY UNACCESSIBLE

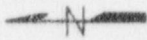
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SOUTH TEXAS PROJECT UNITS 1 & 2

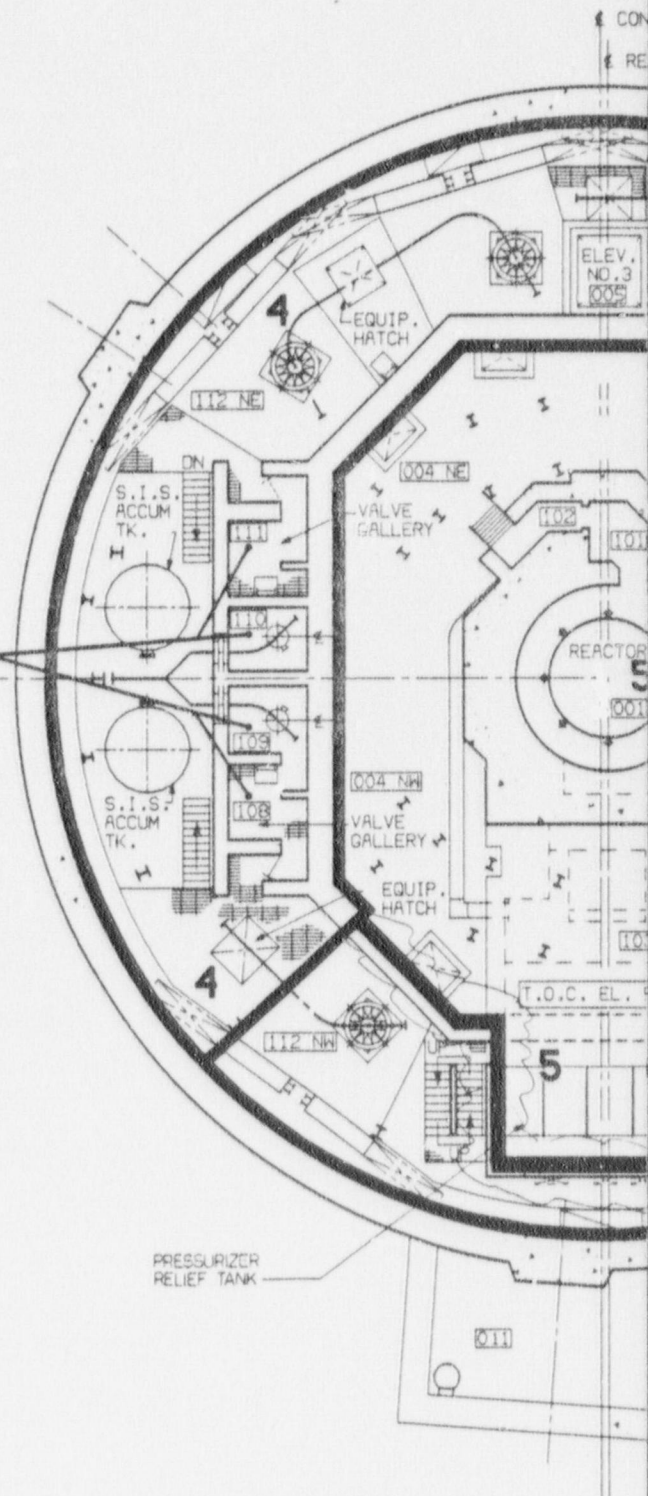
RADIATION ZONES
NORMAL OPERATION
REACTOR CONTAINMENT BUILDING
PLAN AT EL. (-) 11'-3"

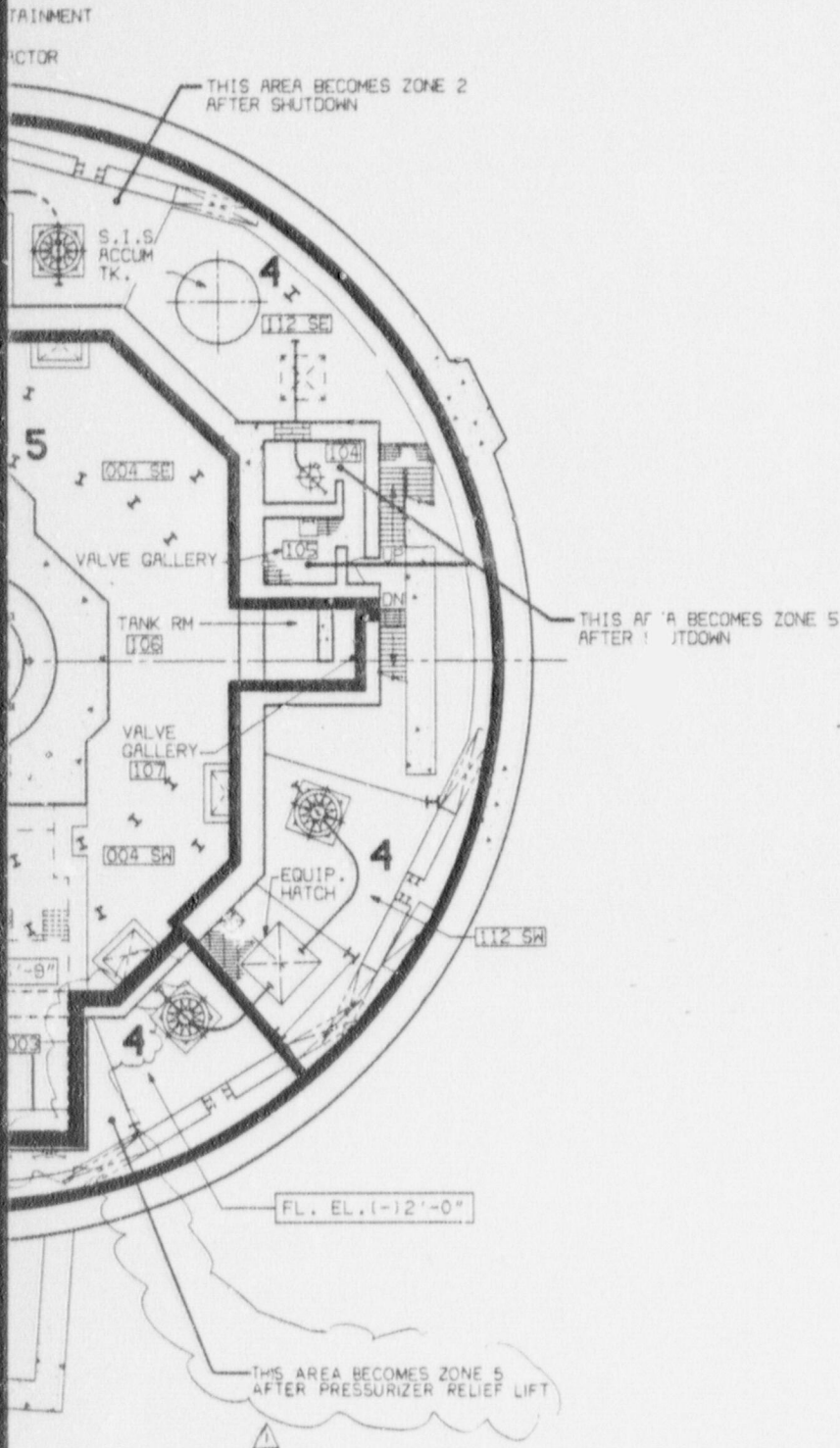
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Figure 12.3.1-1



THIS AREA BECOMES ZONE 5
AFTER SHUTDOWN





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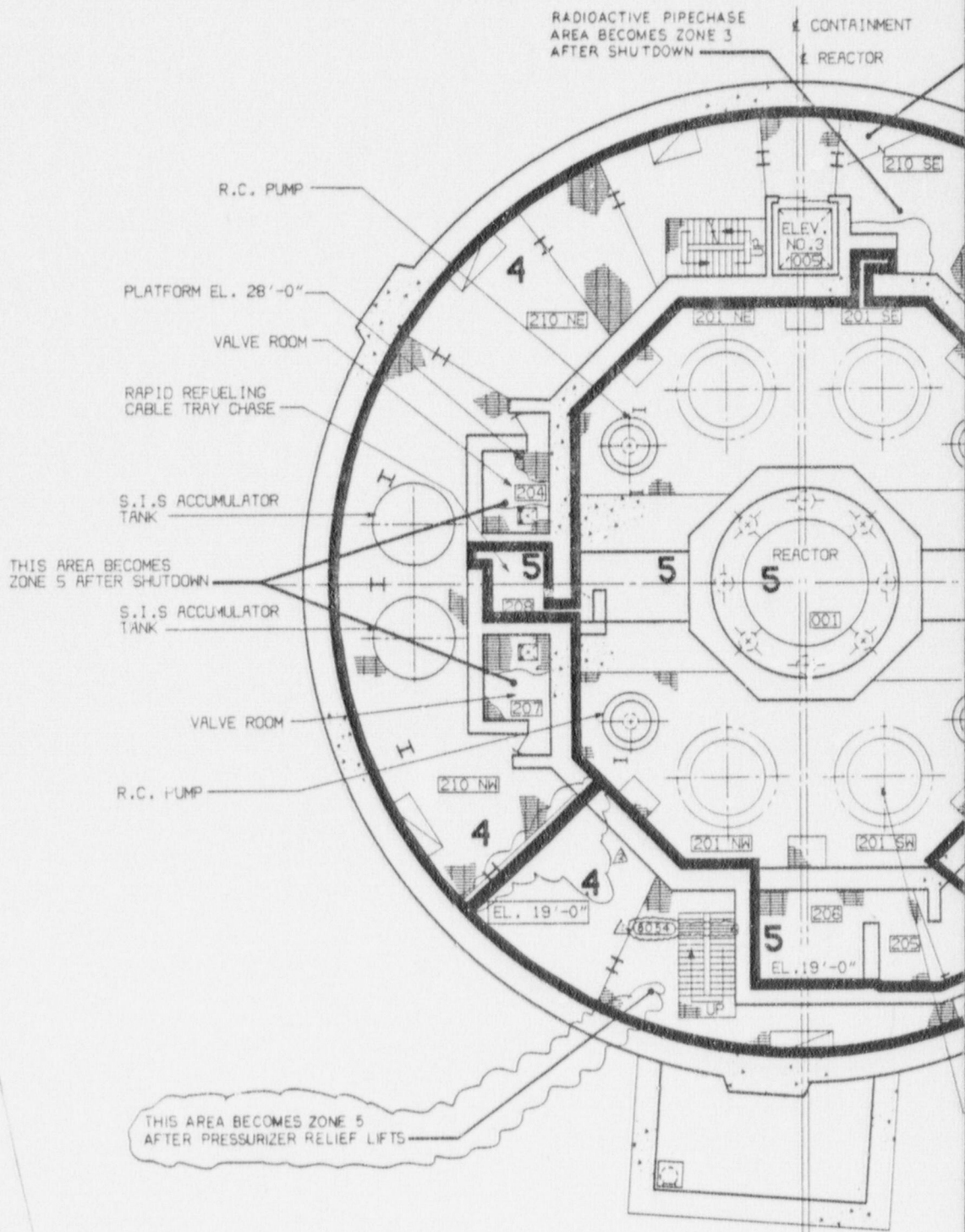
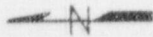
PLANT RADIATION SHIELDING ZONES			
ZONE NUMBER	MAX. DOSE RATE (MR/HR.)	POSTING REQUIRED	ANTICIPATED ACCESS
1	≤ 0.5	NO	UNRESTRICTED ACCESS
2	≤ 2.5	NO	CONTROLLED/NOISE/NO PENETRABLE
3	≤ 15	YES	CONTROLLED ACCESSIBLE ON A PERIODIC BASIS
4	≤ 100	YES	CONTROLLED LIMITED ACCESS
5	> 100	YES	USUALLY INACCESSIBLE

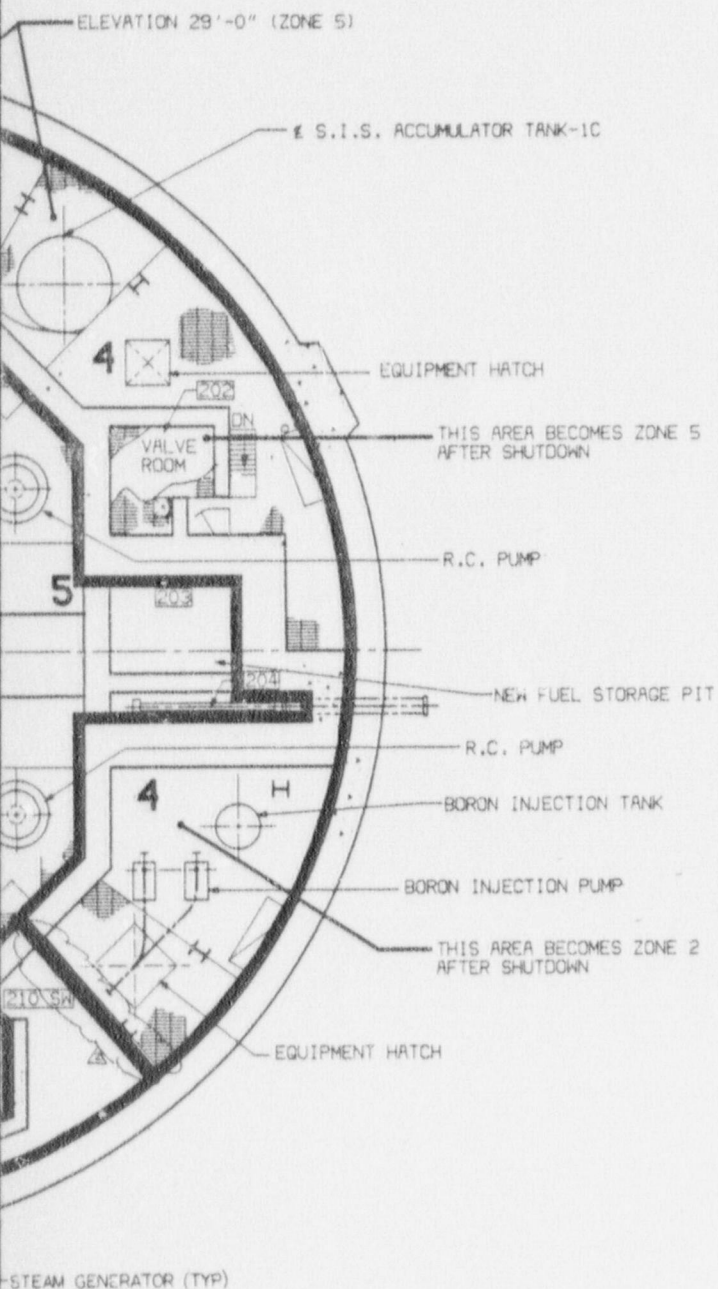
3706170478-02 SOUTH TEXAS PROJECT UNITS 1 & 2

RADIATION ZONES
NORMAL OPERATION
REACTOR CONTAINMENT BUILDING
PLAN AT EL. (-) 2'-0"

Dwg. No. 9C12-9-A81100 Rev. 1

Figure 12.3.1-2





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PLANT RADIATION SHIELDING ZONES			
ZONE NUMBER	MAX. DOSE RATE (mR/hr)	PORTING REQUIRED	ANTICIPATED ACCESS
1	≤ 0.5	NO	UNRESTRICTED ACCESS
2	≤ 2.5	NO	CONTROLLED, NORMALLY PERMISSIBLE
3	≤ 15	YES	CONTROLLED ACCESSIBLE ON A PERIODIC BASIS
4	≤ 100	YES	CONTROLLED LIMITED ACCESS
5	> 100	YES	NORMALLY INACCESSIBLE

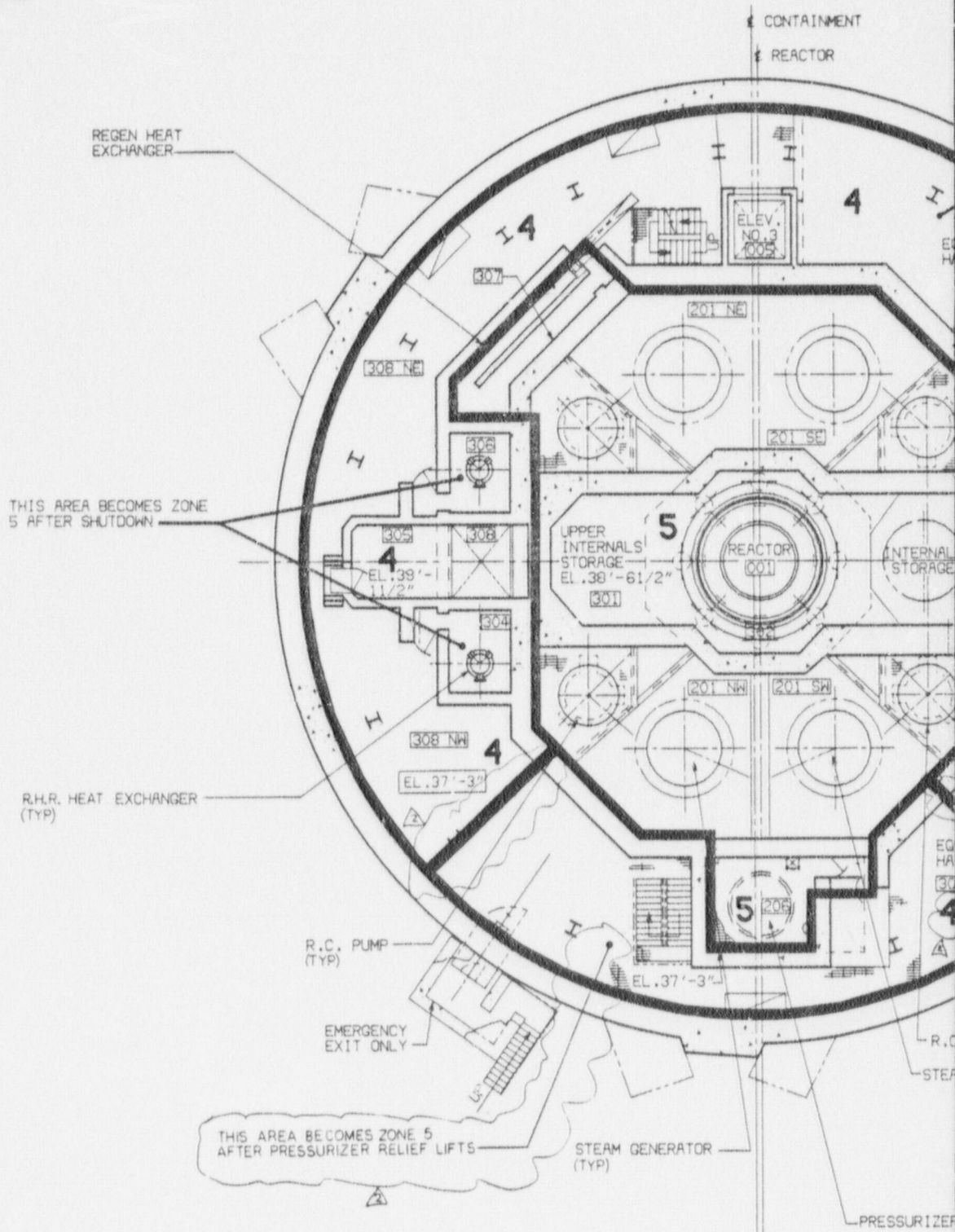
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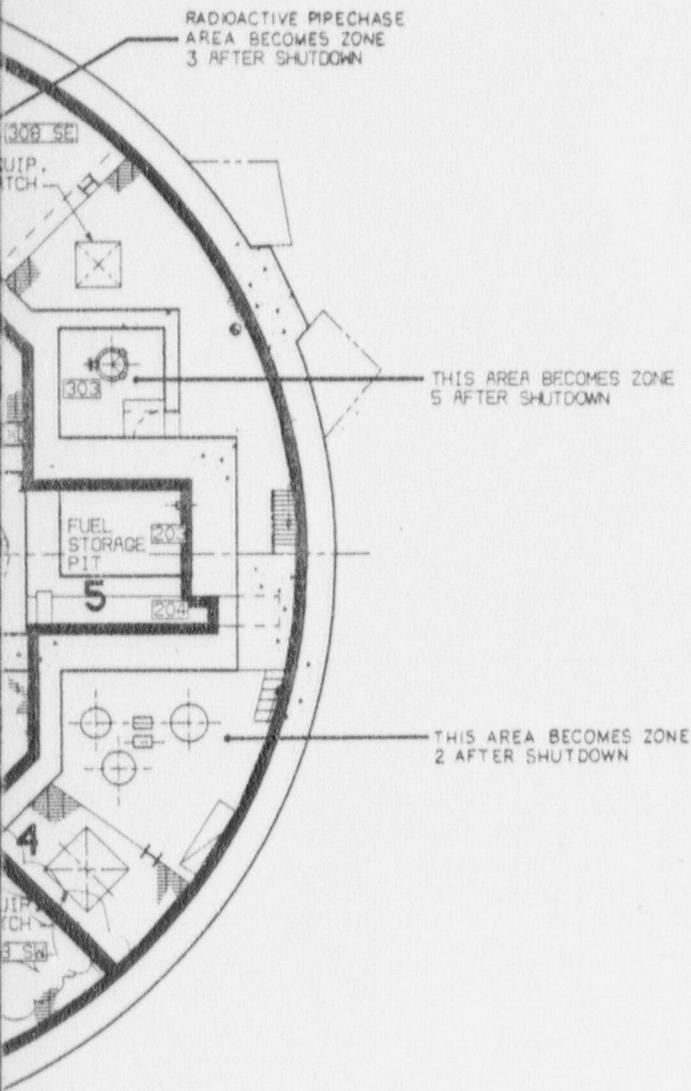
SOUTH TEXAS PROJECT UNITS 1 & 2

RADIATION ZONES
NORMAL OPERATION
REACTOR CONTAINMENT BUILDING
PLAN AT EL. 19'-0"

Dwg. No. 9C12-9-A81102 Rev. 2

Figure 12.3.1-3





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PLANT RADIATION SHIELDING ZONES			
ZONE NUMBER	MAX. DOSE RATE (MR/HR.)	POSTING REQUIRED	ANTICIPATED ACCESS
1	≤ 0.5	NO	UNRESTRICTED ACCESS
2	≤ 2.5	NO	CONTROLLED ACCESS - NO PENETRABLE
3	≤ 15	YES	CONTROLLED ACCESS - ON A PERIODIC BASIS
4	≤ 100	YES	CONTROLLED LIMITED ACCESS
5	> 100	YES	NORMALLY INACCESSIBLE

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SOUTH TEXAS PROJECT UNITS 1 & 2

RADIATION ZONES
NORMAL OPERATION
REACTOR CONTAINMENT BUILDING
PLAN AT EL. 37'-3"

Dwg. No. 9C12-9-A81103 Rev. 2

Figure 12.3. 1-4