



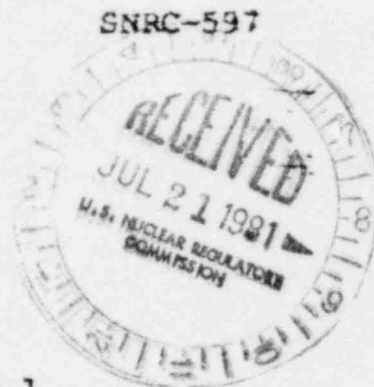
LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

P.O. BOX 818, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11782

July 17, 1981

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



SHOREHAM NUCLEAR POWER STATION - Unit 1
Docket No. 50-322

Dear Mr. Denton:

Enclosed herewith are 60 copies of additional information regarding SER Open Item No. 25, RCIC Temperature Sensors, which was previously identified as requiring clarifying information to complete NRC review.

If you require additional information or clarification, please do not hesitate to contact this office.

Very truly yours,

B.R. McCaffrey
B. R. McCaffrey
Manager, Project Engineering
Shoreham Nuclear Power Station

CC/mh

Enclosures

cc: J. Higgins

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Open Item No. 25

NRC Request:

- a. Provide an illustration to show where the temperature sensor elements are located.
- b. Describe why a failure (steam line break) will not isolate both systems (HPCI and RCIC).

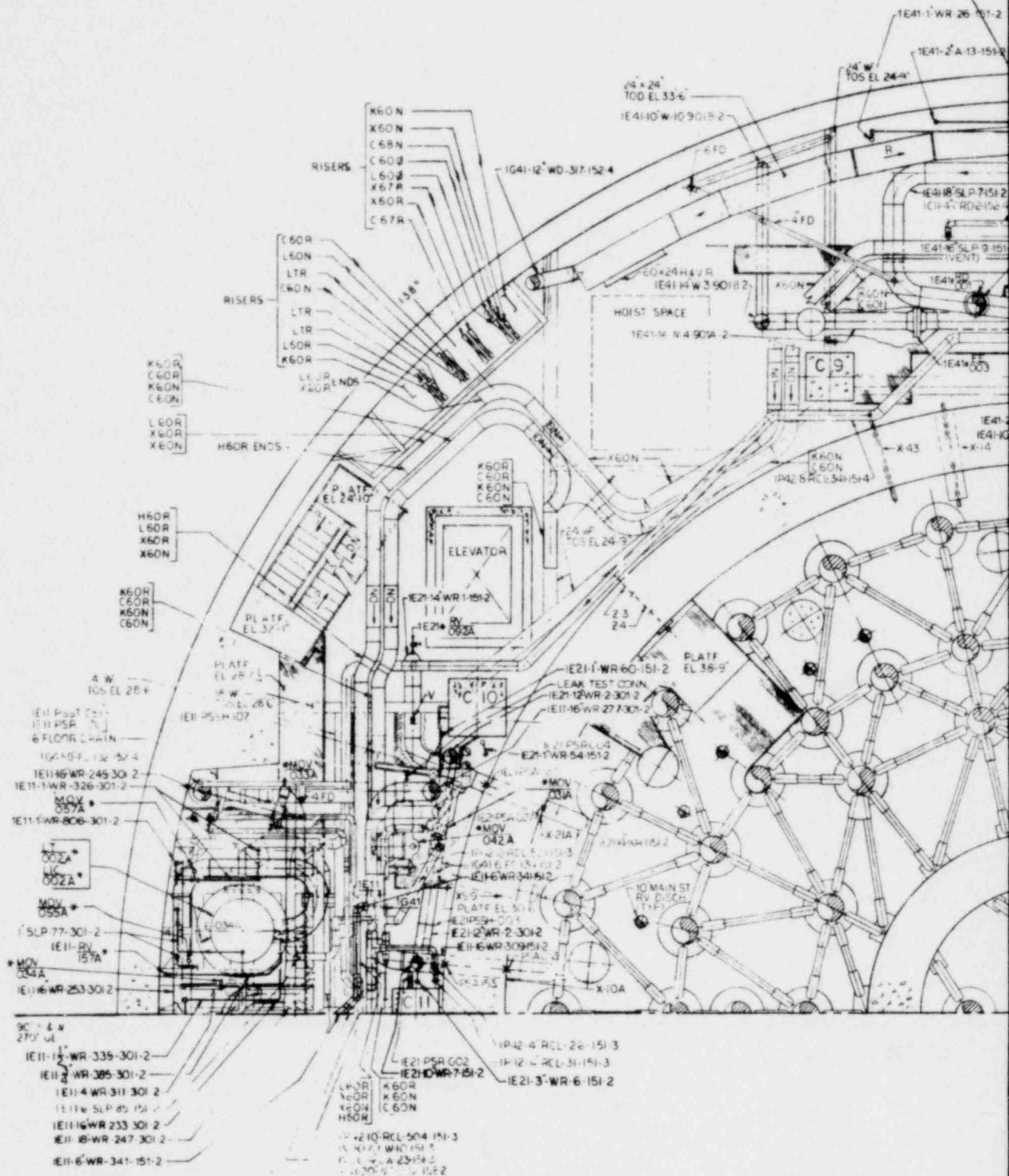
Response:

- a. See the attached table for the location of the temperature sensor elements.
- b. To the maximum extent possible, the temperature sensor elements are placed to minimize the possibility of interference between sensors and isolation of both the RCIC and HPCI systems. In order to be more conservative, for the condition of a break in the RCIC steam supply line it is assumed that HPCI also becomes unavailable and vice versa. This is discussed in detail in FSAR sections 3C.4.3.9 and 3C.4.4.9. As discussed therein, the plant can nevertheless be safely shut down. Note that each pipe break analysis considers, in addition to consequential effects, the worst single active failure associated with each pipe break.

HPCI & RCIC TEMPERATURE SENSOR ELEMENTS

<u>Temp. Element</u>	<u>Azimuth</u>	<u>Elevation (ft)</u>	<u>Radius (ft)</u>
1E51*TE 052A	211°-10'	24.06	60.78
1E51*TE 052B	204°-10'	22.54	55.79
1E51*TE 053A	204°-37'	20.42	8.40
1E51*TE 053B	219°-13'	26.99	61.53
1E51*TE 054A	194°-26'	71.91	65.18
1E51*TE 054B	197°-26'	68.71	65.08
1E51*TE 055A	190°-44'	65.38	45.76
1E51*TE 055B	190°-28'	64.19	49.46
1E51*TE 055C	190°-12'	69.32	45.22
1E51*TE 055D	190°-49'	71.77	47.73
1E41*TE 053A	190°-43'	37.19	50.72
1E41*TE 053B	189°-10'	37.23	48.19
1E41*TE 054A	203°-15'	24.98	58.97
1E41*TE 054B	205°-36'	24.99	60.81
1E41*TE 056A	193°-56'	69.53	63.15
1E41*TE 056B	196°-07'	67.61	65.12

IE41-TE053 B
EL. 37.23'



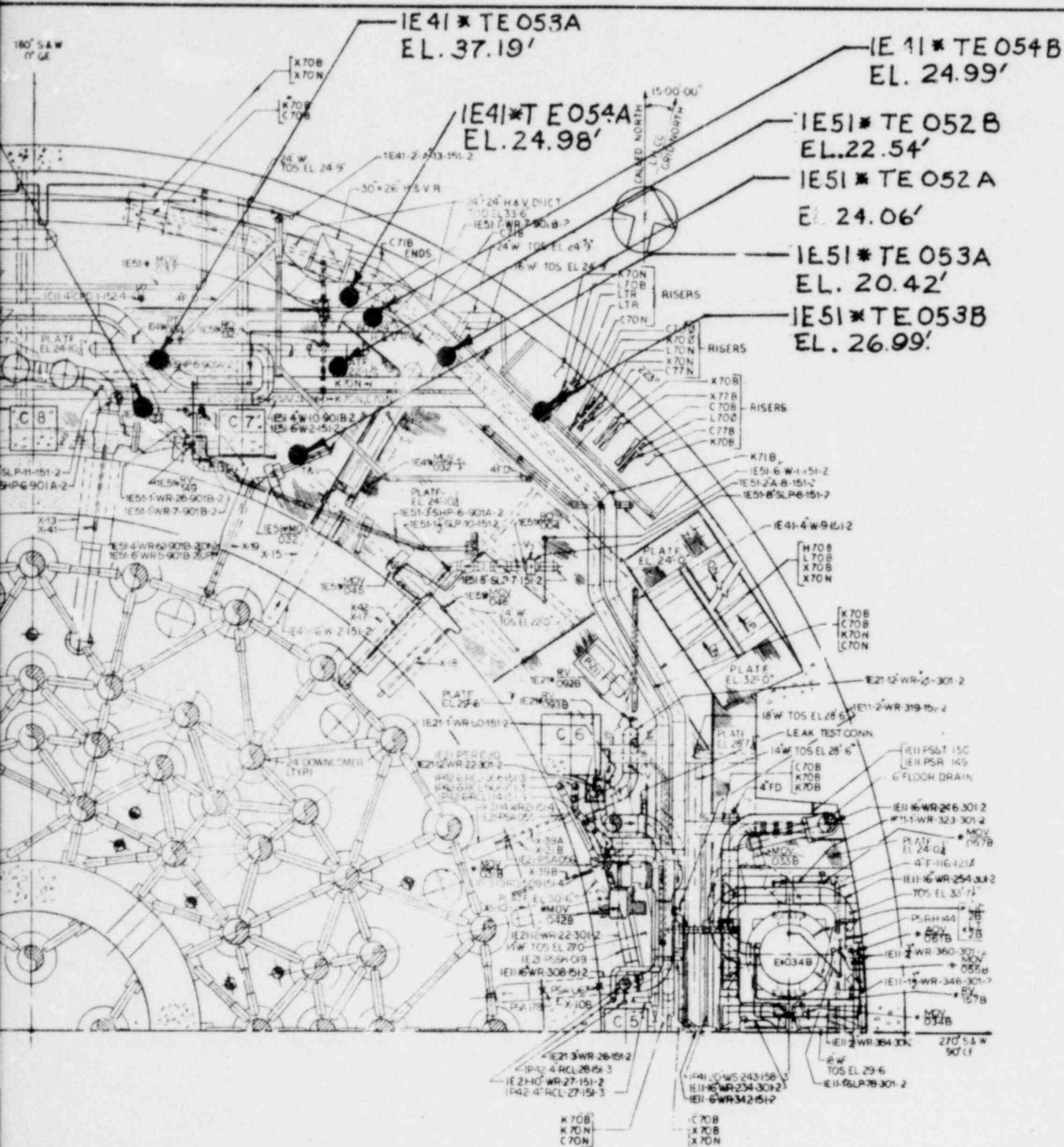


FIG. 1

HPCI AND RCIC TEMPERATURE
SENSOR LOCATIONS

EL. 20'-0" TO 40'-0"

SHOREHAM NUCLEAR POWER STATION - UNIT 1

IE41*TEC
EL. 67.61'
IE41*TEC
EL. 69.53

