

Revision 0

1632.2

02/14/77

THREE MILE ISLAND NUCLEAR STATION
STATION HEALTH PHYSICS PROCEDURE 1632.2

RADIATION SHUTDOWN SURVEY

(Unit 2 Only)

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Unit 1 Staff Recommends Approval

 Approval NA Date
 Cognizant Dept. Head

Unit 2 Staff Recommends Approval

 Approval NA Date
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Unit 1 PORC Recommends Approval

NA Date
 Chairman of PORC

 PORC comments of included
 (date)
By Date

Unit 2 PORC Recommends Approval

Norman Williams Date 1-25-77
 Chairman of PORC

 PORC comments of included
 (date)
By Date
 Approval NA Date
 Mgr., Operational
 Quality Assurance

 Approval [Signature] Date 2/14/77
 Station Superintendent/
 Unit Superintendent

THREE MILE ISLAND NUCLEAR STATION
STATION HEALTH PHYSICS PROCEDURE 1632.2
RADIATION SHUTDOWN SURVEY
(Unit 2 Only)

1.0 PURPOSE

The purpose of this procedure is to provide guide lines for the performance of the Radiation Shutdown Survey in Unit 2.

2.0 DISCUSSION

Gamma readings will be used to calculate dose rates for in-service inspection and provide information on levels of radiation around steam generators, reactor coolant pumps, pressurizer and associated piping.

- 2.1 The instrument used will be a standard gamma radiation detection instrument. Gamma readings will be contact readings at the positions specified in section 5.1.

3.0 REFERENCES

- 3.1 FSAR
3.2 Radiation Protection Manual for TMI.

4.0 EQUIPMENT

- 4.1 Gamma detection instrument.
4.2 Form 1632.2-1.

5.0 OPERATING INSTRUCTIONS

- 5.1 Radiation level surveys will be contact readings taken at the positions specified below and on Figure 1632.2-1. The survey will be conducted approximately 24 hours after reactor shutdown (Reactor Subcritical) or when specified by the Radiation Protection Supervisor/Foreman.

<u>Position #</u>	<u>Location</u>
1	Pressurizer Manway.
2	S.G. "A" - RCS Manway Top.
3	Pressurizer Heater Bundle.
4	R.C.P. "2A" - Seal Area.
5	Pri. Shield - Hot Leg Gap at Elev. 314.
6	S.G. "A" Lower Tube Sheet (Reactor Side).
7	R.C.P. "2A" - Volute.
8	Reactor Vessel Hot Leg - Safe End - West.
9	S.G. "B" - RCS Manway Top
10	R.C.P. "2B" - Seal Area.
11	S.G. "B" - Lower Tube Sheet (Reactor Side).
12	R.C.P. "2B" - Volute

- 5.2 Record the radiation contact readings on the data sheet Form 1632.2-1.
- 5.3 In addition to the normal 12 readings a general gamma scan of the internal areas of the reactor building including reactor coolant piping, decay heat lines (after decay heat has been initialed) and primary components will be made. The general survey is to be documented on Reactor Building General Survey Maps and will serve to identify additional radiation areas to aid in the completion of Radiation Work Permits.
- 5.4 Return all completed surveys to the Radiation Protection Supervisor/Foreman for review.

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DATA SHEET FORM 1632.2-1

RADIATION SHUTDOWN SURVEY

Time After Reactor Shutdown _____

POSITION NUMBER	LOCATION	GAMMA READING MR/hr	REMARKS
1	Pressurizer Manway		
2	S.G. "A" - RCS Manway Top		
3	Pressurizer Heater Bundle		
4	R.C.P. "A" Seal Area		
5	Pri. Shield - Hot Leg Gap at El. 314'		
6	S.G. "A" - Lower Tube Sheet - (Reac. Side)		
7	R.C.P. "A" - Volute		
8	Reactor Vessel Hot Leg - Safe End West		
9	S.G. "B" - R.C.S. Manway Top		
10	R.C.P. "D" - Seal Area		
11	S.G. "B" - Lower Tube Sheet (Reac. Side)		
12	R.C.P. "D" - Volute		

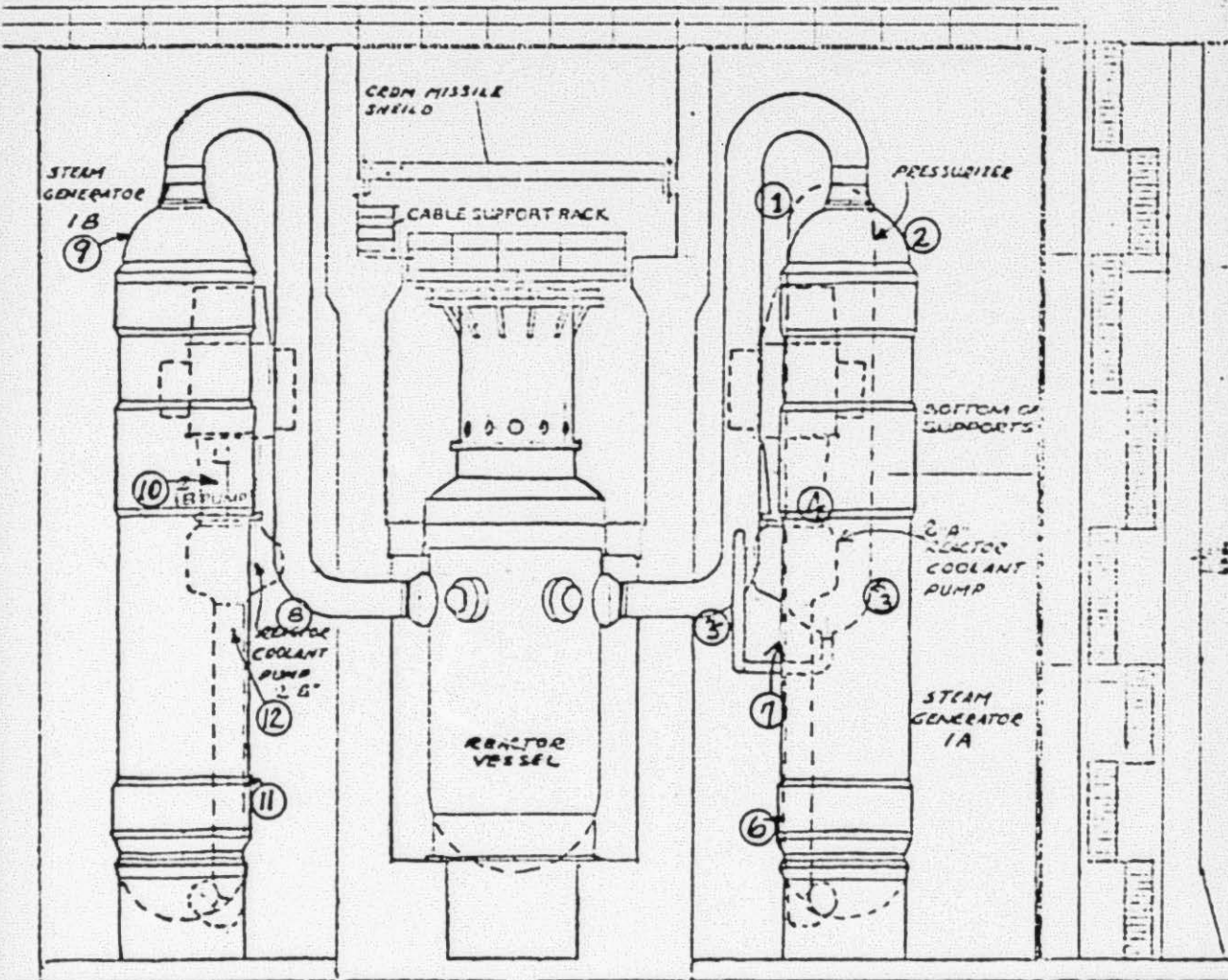
Date: _____

Performed by: _____

Instrument Number: _____

Reviewed by: _____

FIGURE 1632.2-1



TMI DOCUMENTS

DOCUMENT NO: TM-0419

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WRM
Wilda R. Mullinix, NRC

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