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 50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Gas
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DOCKET #
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SUBJECT: Forwards response to NRC 800606 ltr requesting addl info re shielding review,containment monitors & iodine sampling at facilities.Monitors are mutually redundant using separate power supplies from separate vital instrument busses.

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INTERNAL:	ACCID EVALI BR26	1	1	AUX SYS BR 07	1	1
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	CORE PERF BR 10	1	1	EFF TR SYS BR12	1	1
	EMERG PREP 22	1	0	EQUIP QUAL BR13	1	1
	GEOSCIENCES 14	1	1	HUM FACT ENG BR	1	1
	HYD/GEO BR 15	2	2	I&C SYS BR 16	1	1
	I&E 06	3	3	LIC GUID BR	1	1
	LIC QUAL BR	1	1	MATL ENG BR 17	1	1
	MECH ENG BR 18	1	1	MPA	1	0
	NRC PDR 02	1	1	OELD	1	0
	OP LIC BR	1	1	POWER SYS BR 19	1	1
	PROC/TST REV 20	1	1	QA BR 21	1	1
	RAD ASSESS BR22	1	1	REAC SYS BR 23	1	1
	REG FILE 01	1	1	SIT ANAL BR 24	1	1
STRUCT ENG BR25	1	1	SYS INTERAC BR	1	1	
EXTERNAL:	ACRS 27	16	16	LPDR 03	1	1
	NSIC 05	1	1			

SEP 26 1980

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85 ENCL 49

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy auditing of the accounts.

Furthermore, it is noted that regular reconciliation of the books is essential. This process involves comparing the internal records with the bank statements to identify any discrepancies. Promptly addressing these differences helps prevent errors from compounding over time.

In addition, the document highlights the need for clear communication with all stakeholders. Providing regular updates to investors and partners keeps them informed of the company's financial health and operational progress.

The second section focuses on budgeting and financial forecasting. A well-defined budget serves as a roadmap for the organization, helping to allocate resources effectively and identify areas for cost savings. By comparing actual performance against the budget, management can make data-driven decisions to improve efficiency.

Financial forecasting is another critical component, as it allows the company to anticipate future trends and potential risks. This proactive approach enables the organization to adjust its strategy and secure necessary funding before it becomes a crisis.

Finally, the document stresses the importance of maintaining a strong relationship with financial institutions. Regular communication and providing accurate information to lenders and banks can facilitate better terms and conditions for financing.

In conclusion, effective financial management is the cornerstone of a successful business. By adhering to the principles outlined in this document, organizations can ensure their financial records are accurate, their budgets are realistic, and their financial future is secure.

It is recommended that all business owners and managers take the time to review these guidelines and implement them in their respective organizations. Consistent application of these practices will lead to improved financial stability and long-term growth.

PACIFIC GAS AND ELECTRIC COMPANY

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Washington, D. C. 20555

Re: Docket No. 50-275
Docket No. 50-323
Diablo Canyon Units 1 & 2

Dear Mr. Schwencer:

Attached is PGandE's response to your request for additional information dated June 6, 1980 regarding Shielding Review, Containment Monitors, and iodine sampling at Diablo Canyon, Units 1 and 2.

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it to me in the enclosed addressed envelope.

Very truly yours,

Philip A. Crane, Jr.

Attachments (40)
CC w/attachment: Service List

8009250/11

8009250 : 288

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The following information was obtained from the records of the
 Department of the Interior, Bureau of Land Management, on
 the subject of the above-captioned tract of land.
 The tract of land described in the above-captioned
 instrument is situated in the County of [County Name],
 State of [State Name], and is more particularly
 described in the instrument above referred to.
 The tract of land is situated in the [Section] of
 the [Township] of the [Range] of the [Meridian],
 and is more particularly described in the instrument
 above referred to.
 The tract of land is situated in the [Section] of
 the [Township] of the [Range] of the [Meridian],
 and is more particularly described in the instrument
 above referred to.
 The tract of land is situated in the [Section] of
 the [Township] of the [Range] of the [Meridian],
 and is more particularly described in the instrument
 above referred to.

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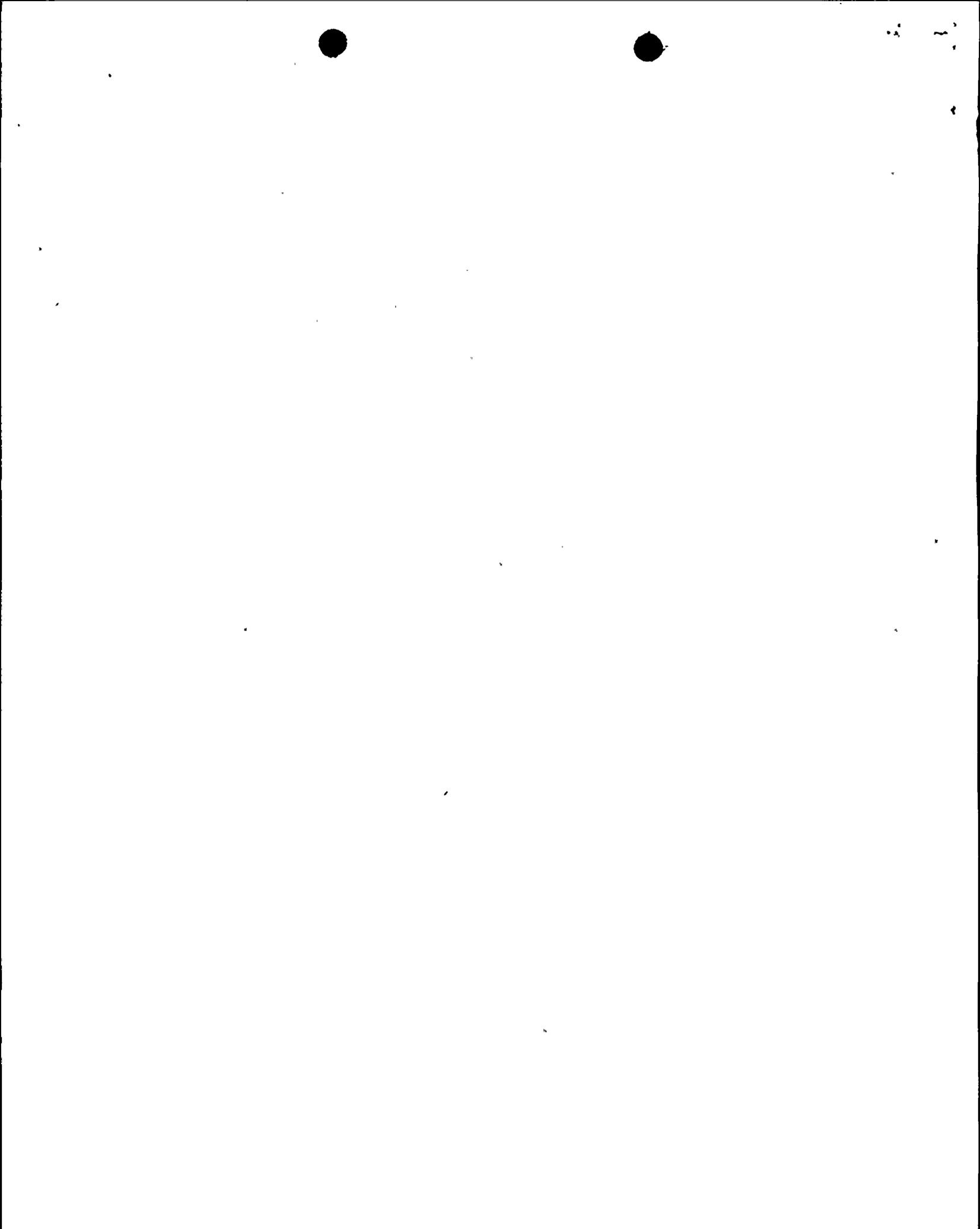
SHIELDING REVIEW

Question 331.18 (12.2.1, 12.3.2)

By November 1, 1980, the Pacific Gas and Electric Company plans to submit to the NRC a Shielding Review of the Diablo Canyon Power Plant. This Shielding Review is part of the PGandE response to NUREG-0578: "Short Term Lessons Learned Requirements." To formulate the PGandE response to Item 2.1.6.b of NUREG-0578, two meetings were held with the NRC on February 26, 1980 and April 4, 1980. During both meetings, the NRC commented favorably upon the scope and schedule of the Diablo Canyon Shielding Review. By mutual agreement, the Review was scheduled for submittal to the NRC during the last quarter of 1980, with a target date of November 1.

As defined in the PGandE response to NUREG-0578 and the April 4, 1980, NRC meeting, the Review will contain the items indicated below:

- The Review will discuss the calculational methods and source terms used in evaluating personnel access and the environmental qualification of equipment.
- The Review will discuss the systems assumed to contain high levels of radioactivity in a postulated post-accident situation. Deletion of any of the systems identified in meetings with the NRC will be explained.
- The Review will specify areas where personnel access is considered necessary for vital system operation after an accident. Deletion of any of the areas identified in meetings with the NRC will be explained.
- The Review will name the computer codes used in the Shielding analysis.
- The Review will present the projected doses to individuals for any necessary occupancy times in vital areas.
- An integral part of the Review is the environmental qualification of the safety-related equipment in the auxiliary building taking into account the radiation levels which would exist in the auxiliary building during the thirty days following an accident that has resulted in a degraded core condition. The Review will indicate the equipment which has not been qualified and will include plans and methods to qualify this equipment.
- The Review will include a brief description of the proposed plant modifications. These modifications will be complete by January 1, 1981 or prior to power ascension, whichever is later.



CONTAINMENT MONITOR

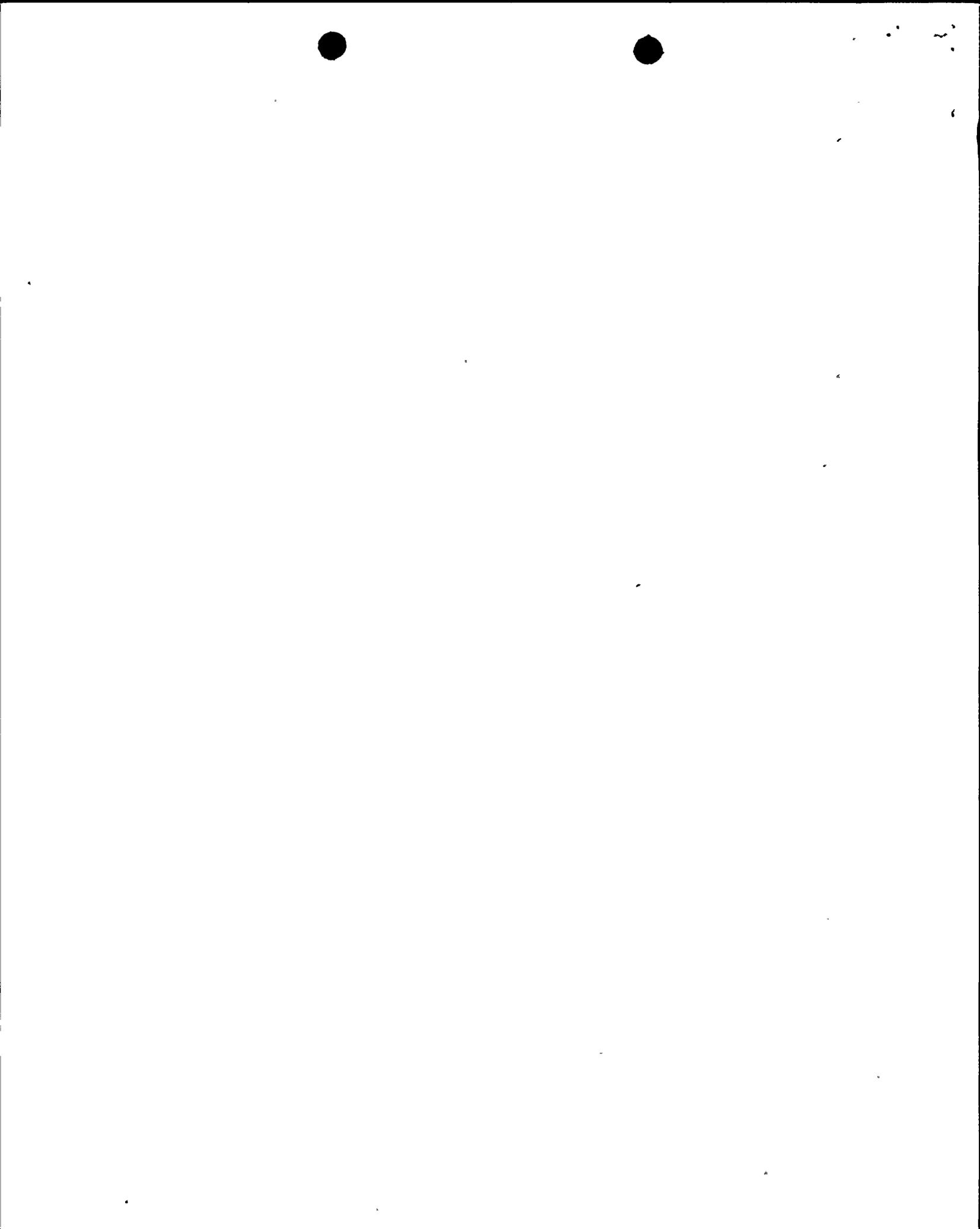
Question 331.19 (12.3.4)

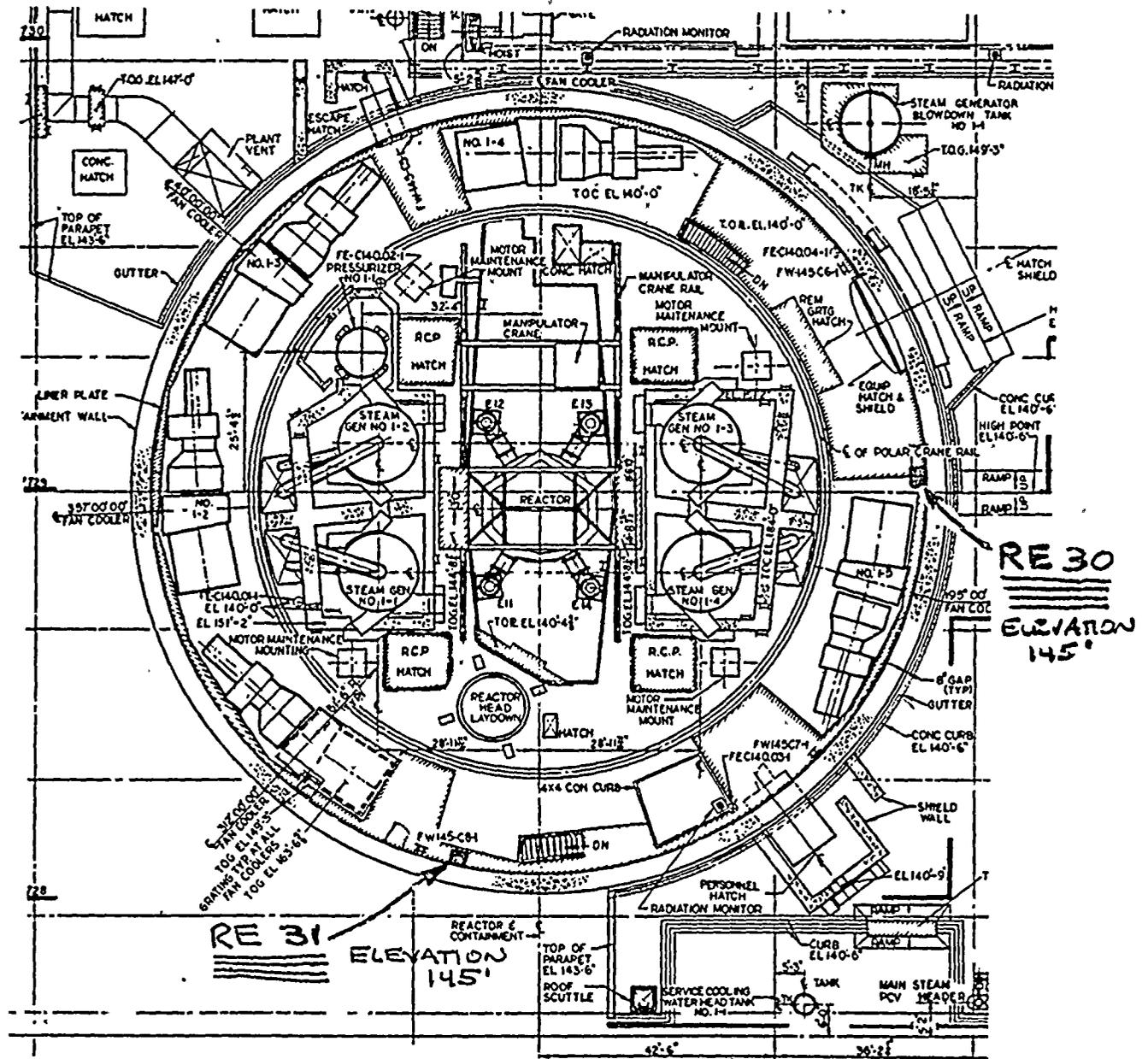
The two high range containment monitors measure photons above 60 keV. Calibration is performed in a test lab using cobalt 60 at approximately 300 R/hr. No on-site capability exists to calibrate these devices. A functional check of electrode configuration and electrical operation of detector, cable, polarizing voltage application, and detector output measurement function is automatically performed every 25 minutes. The check can be initiated manually to compare system output to a fixed input.

The monitors are mutually redundant, using separate power supplies from separate vital instrument busses. They will be fully operational before January 1, 1981.

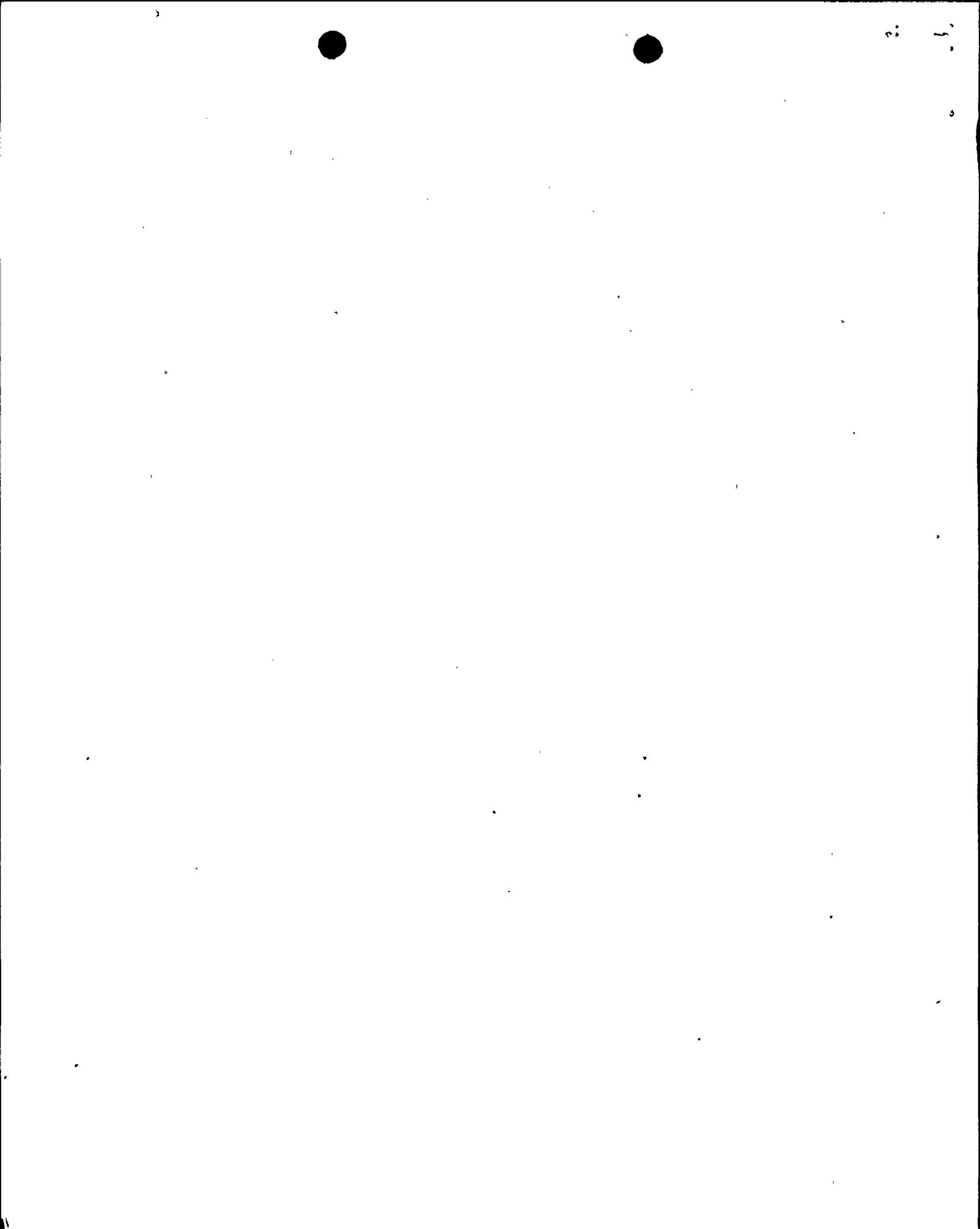
The supplier is repeating the environmental qualification tests after replacing an "O" ring which failed in the original test with a seal welded joint. No other problems were found. The qualification package, which includes both seismic and environmental qualifications, will be completed before January 1, 1981, and will comply with regulatory guides 1.89 and 1.100.

A containment layout showing the location of the monitors is attached.





"LOCATION OF HIGH RANGE CONTAINMENT MONITORS, RE 30 AND RE 31."



IMPROVED IODINE

Question 331.20 (12.3.4, 12.5.2)

The number and types of portable iodine samplers at Diablo Canyon are shown on Table 1. All listed samplers can be fitted with either silver zeolite or impregnated charcoal cartridges for the collection of iodine samples. Analysis of the cartridges for the portable samplers will be made utilizing a germanium gamma spectrum analysis system calibrated for this use. There will be, upon completion of the Technical Support Center, germanium gamma spectrum analysis systems in the following locations: radioanalytical counting room (adjacent to Chemistry Laboratory Level 85), whole body counting room (also on Level 85 adjacent to access control), Technical Support Center (TSC) Laboratory, mobile radioanalytical van, and California Polytechnic University. In addition, a portable gamma spectrum analysis system will be available prior to fuel loading which will be capable of being set up in various areas of the plant. This portable system will initially include a shielded sodium iodide detector. The detector on this system will be replaced with an intrinsic germanium detector prior to power ascension.

Procedures for post-accident iodine sampling are being developed and the radiation process monitors (RPMs) will be trained to perform these functions. This post-accident iodine sampling procedure is similar to existing procedures on collection and analysis of routine iodine samples. All gamma analysis systems described above are capable of determining sample results within 10 minutes after start of count, assuming there is sufficient activity on sample.



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TABLE 1

IODINE AIR SAMPLERS

<u>SAMPLER DESCRIPTION</u>	<u>FEATURES</u>	<u>NUMBER ON SITE</u>
Radeco Constant Air Monitor	Constant Flow Pump-8 CFM max., single Channel I-131 analysis with BKG subtract, alarms for high activity or rate of change, and detector failure, recorder on portable unit	4
Radeco HD 28/B Sampler	Constant Flow Pump-4 CFM max., adjustable flow rate with indicator, elapsed time counter	8
Radeco HD 28 Sampler	Constant Flow Pump-1 to 3 CFM elapsed time counter	17

