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AUTH.NAME AUTHOR AFFILIATION
MCDUFFIE,M.A. Carolina Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
DETNON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards responses to draft Chemical Engineering Branch SER open Items 146 & 147 re schematics of sample lines & panels (per TMI Item II.B.3) & post-accident sampling sys.

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JUN 30 1983

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NOS. 1 AND 2
DOCKET NOS. 50-400 AND 50-401
DRAFT SAFETY EVALUATION REPORT RESPONSES
CHEMICAL ENGINEERING BRANCH

Dear Mr. Denton:

Carolina Power & Light Company (CP&L) hereby transmits one original and forty copies of responses to Shearon Harris Nuclear Power Plant Draft Safety Evaluation Report Open Items. These responses are for the Chemical Engineering Branch, and are CP&L Open Item Numbers 146 and 147.

We will be providing responses to other Open Items in the Draft Safety Evaluation Report shortly.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

JDK/ta (7125JDK)

cc: Mr. N. Prasad Kadambi (NRC)
Mr. J. Wing (NRC)
Mr. G. F. Maxwell (NRC-SHNPP)
Mr. J. P. O'Reilly (NRC-RII)
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Mr. J. L. Kelley (ASLB)

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411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

DRAFT SER OPEN ITEM 146

Question:

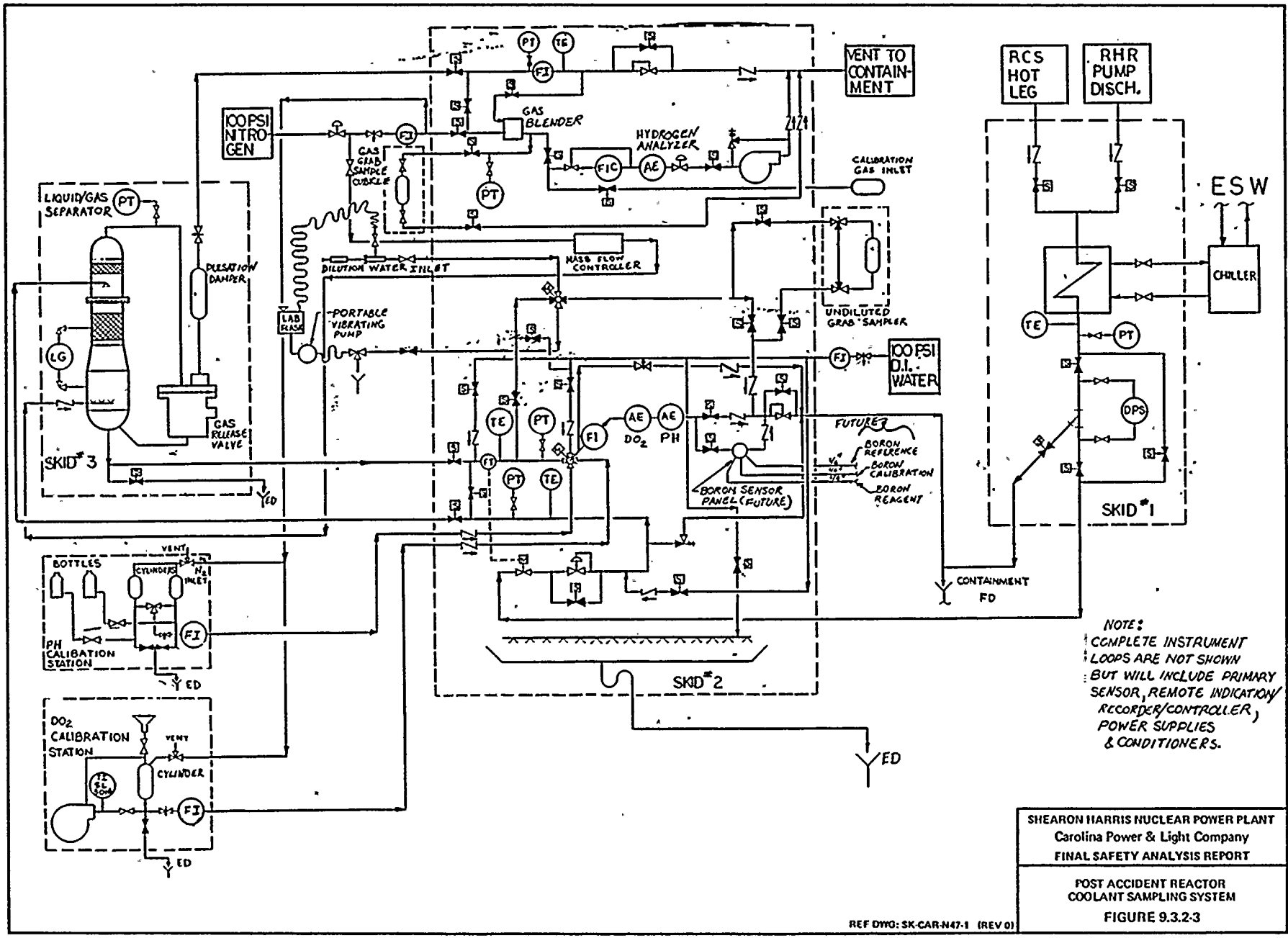
Provide the schematic diagrams of the sample lines and sampling panels.

Response:

Design criteria and capabilities of the Post Accident Sampling System comply with the guidelines of Item II.B.3 in NUREG 0737 and SRP 9.3.2 and are discussed in FSAR Section 9.3.2.2.3. The attached Figures 9.3.2-1 and 9.3.2-3 conceptually illustrate the sample lines and sampling panels, respectively.

FSAR Section 9.3.2.2.3 will be revised to provide final design information in a future amendment.

(7125JDKta)

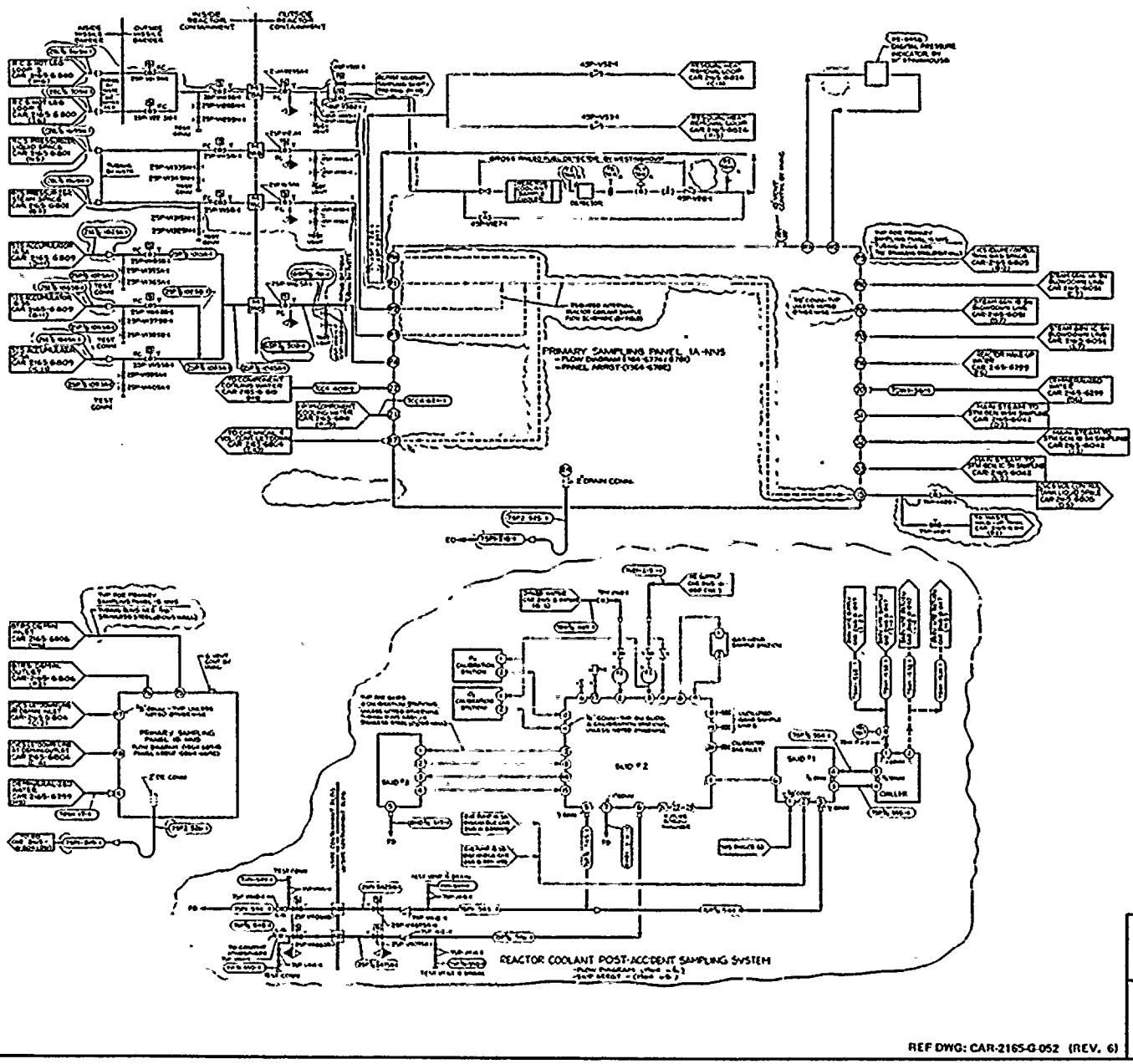


REF DWG: SK-CAR-N47-1 (REV 0)

SHEARON HARRIS NUCLEAR POWER PLANT
Carolina Power & Light Company
FINAL SAFETY ANALYSIS REPORT

POST ACCIDENT REACTOR COOLANT SAMPLING SYSTEM

FIGURE 9.3.2-3



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FINAL SAFETY ANALYSIS REPORT

FLOW DIAGRAM
SAMPLING SYSTEM (NUCLEAR)
FIGURE 9.3.2-1

DRAFT SER OPEN ITEM 147

Question:

Provide information on testing frequency and type of testing to ensure long-term operability of the Post-Accident Sampling System.

Response:

Final testing details of the Post Accident Sampling System (PASS) are not available at this time. The PASS will be maintained (calibrated, flushed, refilled, etc.) based upon the manufacturer's recommendations in the Operation and Maintenance Manual. FSAR Section 9.3.2.2.3 will be revised in a future amendment to provide final details of the testing program. Criteria outlined in NUREG-0737, Item II.B.3, will be considered when establishing a testing program.

(7125JDKta)