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 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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Carolina Power & Light Company

JUN 30 1983

SERIAL: LAP-83-253

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)

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|---------------------------------|----------------------------|
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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.

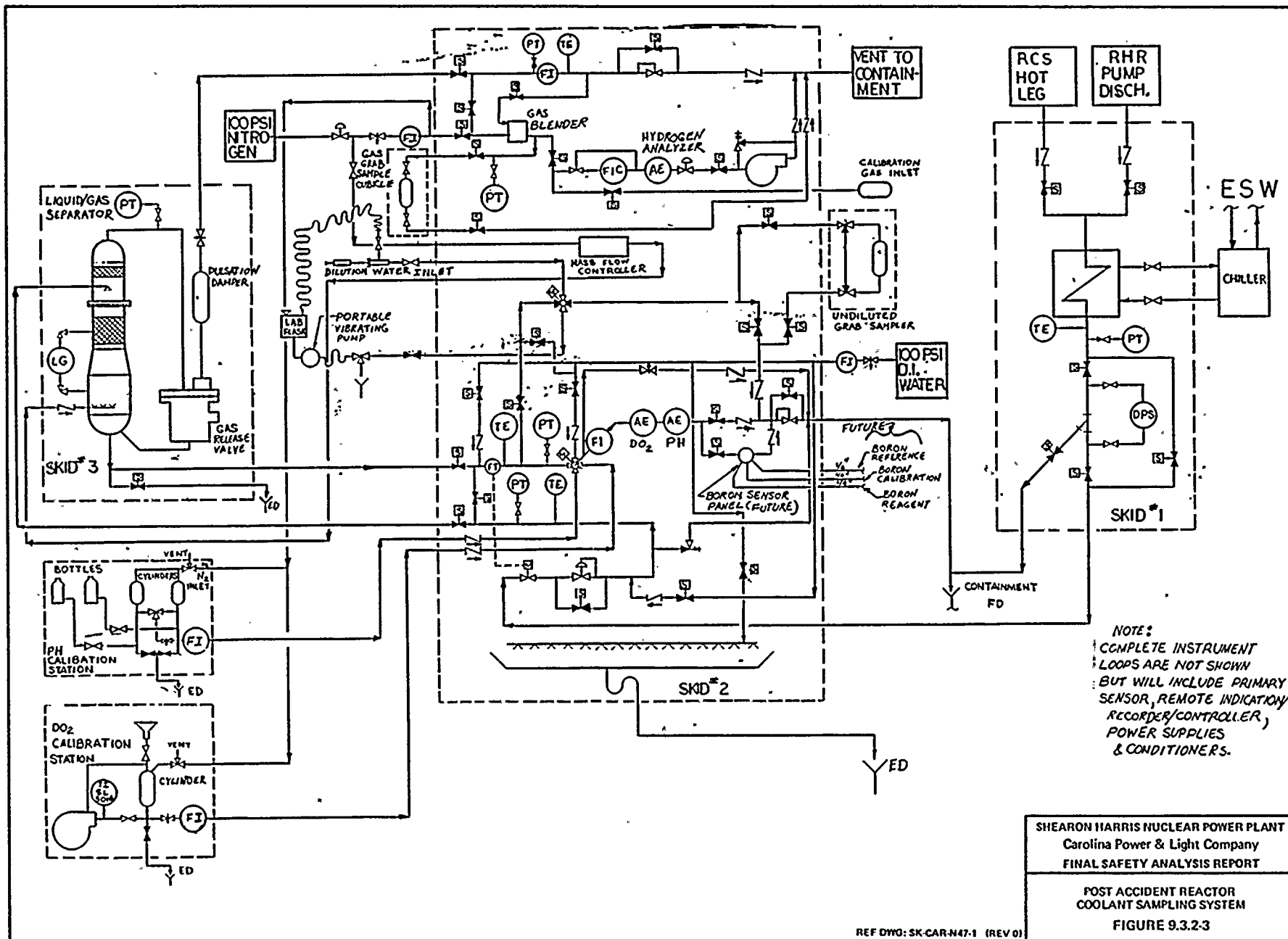
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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification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

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both manual and automated processes. The goal is to ensure that the data is as accurate and reliable as possible.

The final part of the document provides a summary of the findings and conclusions. It highlights the key trends and insights that were discovered through the analysis. The author also offers some recommendations for future research and improvements to the current system.

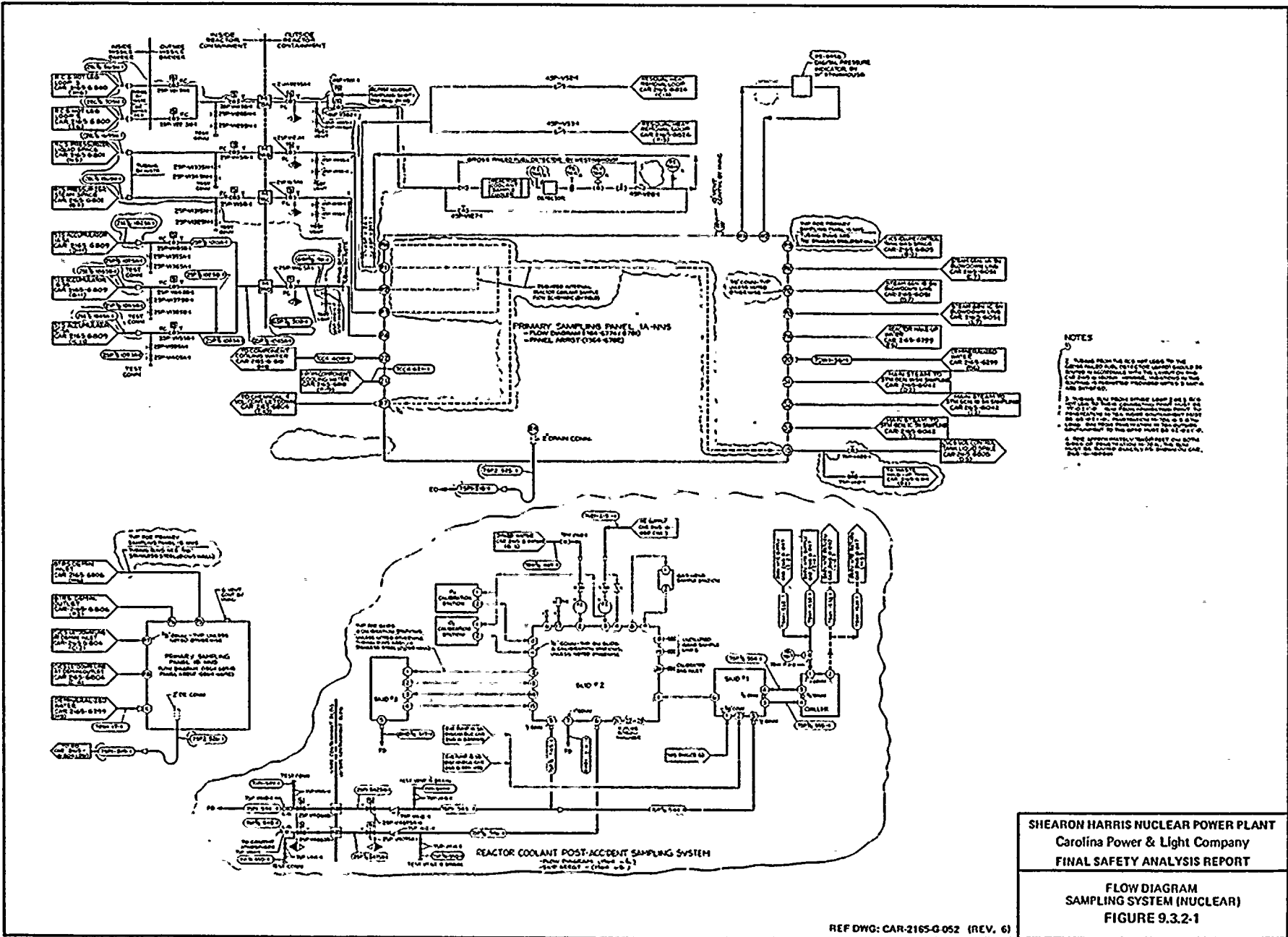
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SHEARON HARRIS NUCLEAR POWER PLANT
 Carolina Power & Light Company
 FINAL SAFETY ANALYSIS REPORT

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.

