3/3

nonconformance.

RELATED CORRESPONDENCE

50-400 BL

50-400

AFFIDAVIT

My name is Chan Van Vo. I am also known as Van Vo Davis. I am giving this statement to Robert Guild, Attorney-at-Law, of Charleston, South Carolina, who has identified himself to me as a representative of the Government Accountability Project. I have been asked to provide further information to the Atomic Safety and Licensing Board of the Nuclear Regulatory Commission about the significance of the improper cold pulling and misalignment of the Steam Generator Feed Water

Pump; and CP&L's mishandling of my efforts to identify and properly correct this

- 2. I repeat my professional opinion expressed in my October 6, 1984,
 Affidavit that the effective function of these pumps, valves and piping are
 nuclear safety significant. At the time I attempted to document the deficient
 fit-up of the Feed Water piping and the resultant stress-induced misalignment
 of the pump in August 1982 -- and during the entire course of construction of
 the Harris Plant until then-- the Feed Water system, its piping, pipesupports,
 valves and pumps, were classified by the Architects/ Engineers, Ebasco Services,
 Inc., by CP&L, and by their contractors as "Safety Class 4/ Seismic Class I,"
 an acknowledgement of its nuclear safety significance. This classification
 applied to the Feed Water system in the Harris Turbine Building. Conformance
 to the Commission's 10 CFR Part 50, Appendix B, Quality Assurance Criteria such
 as detailed inspection and documentation were required for the Feed Water system.
- 3. After several years of serious problems in the design, fabrication, installation, and inspection of piping and associated components in the Turbine

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Building at the Harris Plant, CP&L faced the prospect of performing extensive and costly rework including necessary inspections and documentation as required by the NRC's QA regulations. Instead of seeing that the job was done right—by the same standards that even CP&L had committed to honor— CP&L sought to circumvent quality standards and thereby "alleviate all concerns related to the additional inspection and documentation requirements for the supports in the Turbine Building," by attempting to "de-classify" the Feed Water and Main Steam systems inside the Turbine Building.

- 4. In my opinion such attempts by CP&L Engineers Ed Willett and Alex Fuller to "de-classify" these important systems simply represent efforts to cover-up their own shoddy work; as did their responses to my attempt to document and correct the Feed Water Pump misalignment.
- 5. Even the limited documentation available to me now supports my position. For Example, I attach as Exhibit 1 Work Directive No. 2836, dated 7/13/83, for Turbine Building Feed Water pipe support T-3-261-1-FW-H-11, which reflects this "de-classification" of the Feed Water hangers in the Turbine Building: ".. this hanger is considered non-seismic and will require no CI or QC involvement or acceptance." This Work Directive cites generic Field Change Request FCR-H-1145, "Reclassification of MS & FW Supports in the Turbine Building." Revisions 0 and 1 reflect site approval by Ed Willett on 1/14/83 and Alex Fuller on 5/13/83, respectively. They are Exhibits 2 and 3, attached.

These generic FCRs rely on a November 12, 1982, Ebasco letter, EB-C-14332,

Exhibit 4, for authority to "reclassify the mainsteam and feedwater pipe supports and the main steam piping, in the turbine building. These items are to be non-seismic, in accordance with letter EB-C-14332." No mention is made of the Feed Water piping lines themselves in the FCRs, since the Ebasco letter expressly excepts the Feed Water piping from de-classification: "Please note that the generic FCR should also cover the feedwater supports in the Turbine Building. From the inspection and documentation aspects, these supports can be handled as B31.1, non-seismic, however, the lines will not be declassified to non-seismic." Thus, even long after my observation of the improper fit-up of the Feed Water pipe-to-pump connection, the Feed Water piping line remained Seismic Class I- requiring Quality Assurance program compliance. The Bergen- Patterson drawing for pipe-support FW-H-11, Exhibit 5, dated 5/27/83, continues to reflect "Safety Class 4/ Seismic Class I" for this hanger.

6. I continue to question the validity of CP&L's attempts to solve their problems of shoddy work at the Harris Plant through such "de-classification" of quality requirements. The nonconformance I observed was a violation of such quality requirements applicable at the time they were violated. My concerns should have been investigated and documented properly at the time by my management. They were not. Neither "de-classification" of defective work nor discarding employee complaints will make the Shearon Harris Nuclear Power Plant safe. I only hope that this NRC Licensing Board will.

SWORN to and subscribed before me this ', day of November, 1984.

Chan Van Vo

NOTARY PUBLIC

FORM NO. 80124 REV. 1 11/32 EXHIBITS WP-110

WD- 2836

WORK DIRECTIVE

PIPE HANGER No. 7-3-761-1-FW-H-11 REV. 1/8

PER FCR-H-1145, THIS HANGER IS CONSIDERED

NON-SEISHIC AND WILL REQUIRE NO CI OR OC

INVOLVEMENT OR ACCEPTANCE. Published 11/13 87

COMPLETED DATE

ACKNOWLEDGED DATE

ACKNOWLEDGED DATE

(WELDING SUPV FOR NON-Q)

CAROLINA POWER & LIGHT COMPANY SHEARON HARRIS NUCLEAR POWER PLANT FIELD CHANGE REQUEST/PERMANENT WAIVER

AP-IX-05 Exhibit 1

EXHIBIT 2

FCR/RM H - 1144	Page 1 of 4
Permanent Waiver to "use-as-is" Permanent Waiver to "use-as-is" ORIGINAL ORIGINAL	ASME Section III Division 1 ASME Section III Division 2 Q Non-Q
Identification of Area and Item: MAIN STEAM AND FEEDWAND STEAM PIPING, IN TURBINE BUIL	LOING.
Reference Documents of Attachment LETTER ES-C-14332 Demvine 2165 G-107.501 Rev 4 Ava	
OF THE PLANT. HECTONED CON DOSIONES	APPER DESTRUCTORY SPECIAL TIME PRECLUTION APPLAND CONSTRUCT CILIFE BYETR-H-145 R-1
ADD A MOTE TO DRAWING 12165 BIG TO RECLASSIFY THE MAIN STEAM AND FEE AND THE MAIN STEAM PIPING, IN THE THESE ITEMS ARE TO BE NON-SEISMIC, WITH LETTER EB-C-14332.	DOCUMENT CONTROL DAPR 8 1983
THESE MENS RE WASSES UN-NECESSARY MISTER	THE C 32417
Requested by: Site Ap Plona D White 1/14/47 EFEL C Discipline Engineer Date Senior Resi	Proval: Click fine 1-14 83 dent Erz neer Date

FCR/24 H- 1145

Page 2 of 4 .

Design Organization Approval	NSSS NPED Only Cther
	Design Organization Attachments Yes No Rejected Conditional Approval
This change requires the following Document to be changed DWNG 2165 G to \$50 Comments: DWGS 5G-107501 \$502 W APPLICABLE	
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Signature Title Date	Signature V Title Date
CP&L Harris Plant	Engineering Approval
HPES Actachmen	its Tes No
Approved as Recommended	Rejected
- Leve Q Whit 3/2/83	Q Stuffelolos
Discipline Engineer Dage	MAPE or PPE
Site Concurrence: Recommend Implementa	tion , at
☐ Alternate	Resolution //ax 4/7/83
☐ Rejected	Sensor Resident Engineer Date
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SHEARON HARRIS NUCLEAR POWER PLANT EXHIBIT 3 TO AP-IX-05 3.,83 FIELD CHANGE REQUEST/PERMANENT WAIVER FCR/PW - H - 1145 REV PAGE I OF 4 Permanent Waiver ORIGINAL Field Change Non-Q Non-ASME Caregory IIA ASME Sect. III DIV. 1 Nonconformance N/A ASME Sect. III Div. 2 Building _ IVERINE EVILOING Elevation ALL -NIA = 1745 - 1-3020.004 FW - 1-3050,00 Sometrics Instruments Lines Valves List All Reference Documents (Drawings, Specs., FCR's, DCN's, Procedures, Etc.) LETTER LE-L-14332 LATTACHED) DRAMING 3165 G -107501 REV. 5 AND SOZ REV 4 Description RECLASSIFICATION OF MS & FW SUPPORTS IN THE TURBINE BUILDING Conflict / Condition THE MAINSTEAM AND FEEDWATER PIPE SUPPORTS IN THE TURBINE BUILDING WERE CLASSIFIED AS "SE'S MICT" FOR PURPOSES OF ANALYSIS, NOT BELAUSE OF SAFETY RUASSIFICATION OR REGULATORY COMMITMENT. THIS REQUIRES OCCURRATION AND TESTING WHICH IS NOT NECESSARY BUT WOULD BE MAINTARED FOR THE LIFE OF THE PLANT. Recommended Action : Please Investigate / Resolve ADD A NOTE TO DRAWING THE GOTOTISCH REV. 35 AND SOZ REV. 4

TO RECLASSIFY THE MAINSTEAM, AND FREDWATER PIAE SUPPORTS,

AND THE MAINSTEAM MAINS IN THE TURAINE BUILDING. THESE ITEMS ARE TO BE NOW - SEISMIC IN ACCORDING HILL LETTER EB-C-14332 EXCEPT FOR THE FOLLOWING HANGERS: FW-H-144, 145 200, 201, 203, 204, 205, 206, 207, 172, 86, \$87. MS-H-212, 213 214, 215, 216, 217, 219, 230, 231, 232, 233, 234, 235, 237 \$ 345. FEEDWATER FRAMES C-1-304 & C-1-310 WILL ALSO REMAIN stification CONDITION ABOVE SATISFIES CRITERIA OF SUSPIIC - NONSEISPIIC. ON ISOMICTRICS IT- 261- FW-5 AND 1-- 286-MS-1. dested By : Site Approval T CHRISCOE igline Engineer 5-13-83 Senior Resident Engineer

EN & LIGHT COMPANY

	FCRAW - H-	1145 REV. 1	Pog	e 2 of 4
Organization Approval	AE NS	SS NPED On	ly Other	
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EBASCO SERVICES INCORFORATED

Two World Trade Center New York, N.Y. 10048

NOV 12 1982

EB-C- 14332 File: 5Q-H-2 5-S-11

Mr L I Loflin, Manager Engineering - Harris Plant Carolina Power and Light Company P 0 Box 101 New Hill, North Caroline 27562

Dear Mr Loflin:

SUBJECT:

SHEARON HARRIS NUCLEAR POWER PLANT ANALYSIS OF MAIN STEAM LINES 5MS2-144

THROUGH 150

Reference:

CE-13476

We have reviewed your request for deletion of snubbers associated with the subject lines and wish to offer the following for your consideration.

The EB-E-241 correspondence provided a criteria for support loads which assure a satisfactory seismic design. The snubbers in question cannot be replaced with rigid restraints without thermally overstressing the pipe during plant normal operation.

It is noted that any snubbers located in the Turbine Building will be reviewed and deleted if the criteria for design of anchors at seismic/non-seismic interfaces are not violated.

Regarding the subject lines, portions of the lines inside the Turbine Building do not have to be seismically designed. As discussed with your Mr G White, the most efficient way to reflect this change is to have CP&L prepare a generic FCR which would request Ebasco to "de-classify" all MS lines/portions of lines inside the Turbine Building to B31.1, non-seismic lines. Due to the large scope of these lines (much broader than 5MS2-143 through 150 as indicated in your letter) the disposition of this change through a line and valve list would be too extensive. In our opinion this generic FCR will alleviate all concerns related to the additional inspection and documentation requirements for the supports in the Turbine Building. The only exception to this generic approach are the major Main Steam lines from the interface anchor to the turbine stop valve (44" lines). The declassification of these lines will be handled through a formal revision to the line list and other design documents including the FSAR. This is highlighted in our reply to your CE 13502 letter.

Please note that the generic FCR should also cover the feedwater supports in the Turbine Building. From the inspection and documentation aspects, these supports can be handled as B31.1, non-seigmic, however, the lines will not be declassified to non-seismic. This is due to the fact that the interface anchors were not designed for the seismic/non-seismic load criteria.

Please provide us with the aforementioned FCR as soon as possible.

ANALYSIS OF MAIN STEAM LINES 5MS2-144 THROUGH 150.

If you have any questions, please call us.

Very truly yours,

R K Matzelle Project Manager

PF:amb

cc: L I Loflin

J J Sheppard

L H Martin

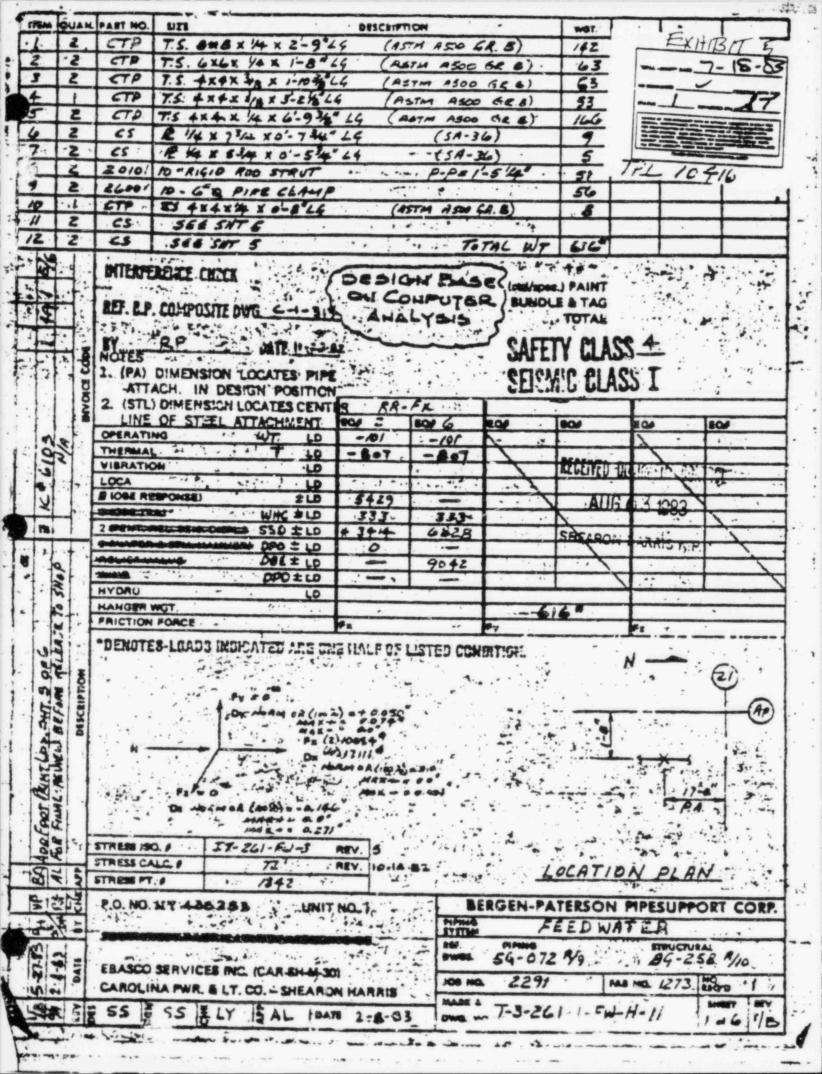
J L Willia

R M Parsons

Sheldon D Smith

G L Forehand

N J Chiangi



UNITED STATES OF AMERICA MUCLEAR REGULATORY COMMISSION

Docket 50-400 In the matter of CAROLINA POWER & LIGHT CO. Et al. Shearon Harris Nuclear Power Plant, Unit 1 . 0. L. CERTIFICATEOF SERVICE Signed and Notarized Chan Van Vo I hereby certify that copies of affidavit of 11-21-84 re Feedwater Pumporoblem & efforts to correct it with five (5) Exhaibits attached thereto 25 day of November 1984 , by deposit in HAVE been served this the US Mail, first-class postage prepaid, upon all parties whose names are listed below, except those whose names are marked with an asterisk, for whom service was accomplished by cony of unsigned affidavit mailed out by John Runkle this date. Any party wishing a signed copy can obtain one on request from me. Judges James Kelley, Glenn Bright and James Carpenter (1 copy each) Atomic Safety and Licensing Board US Nuclear Regulatory Commission Washington DC 20555 George F. Trowbridge (attorney for Applicants) Shaw, Pittman, Potts & Trowbridge A Ruthanne G. Miller 1600 M St. Na ASLB Panel Washington, DC 20036 USNRC Washington DC 2055 5 E *Spence W. Perry Office of the Executive Legal Director FEMA Room 840 Attn Dockets 50-400/401 0.L. PIGN 500 C St. SW USNRC ONLY Washington DC Washington DC 20555 20740 *Dan Read Docketing and Service Section (3x) CHANCE /FLP Attn Dockets 50-400/401 0.L. 5707 Waveross NC 27606 Office of the Secretary Maleigh. USNRC * Dr. Linda W. Little washington DC 20555 Governor's Waste Mct. Bd. * (E plan only) 513 Albemarle Bldg. 325 N. Saliabury St. John Runkle Steve Rochlais CCNC FEMA-Suite 700 Releigh, NC 27611 307 Granville Rd 1371 Peachtree St.NE Chapel Hill No 27514 Atlanta GA 30309 *Bradley W. Jones USNRC Region II *Robert Gruber *Travias Payne 101 Marietta St. Exec. Director Edelstein & Payne Atlanta GA 30303 Public Staff Box 12607 Box 991 Raleigh NC 27605 Raleigh NC 27602 Certified by Wall Eddlem Richard Wilson, M.D. 729 Hunter St.

Apex NC 27502

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