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SUBJECT: Documents issues discussed during 920406 telcon re
 emergency diesel generator A lube oil sample 46, per NRC
 911209 request. Predict equipment condition rept encl.

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 TITLE: Seismic Qualification of Equipment in Operating Plants - A-46

NOTES: Application for permit renewal filed. 05000400

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United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
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SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/LICENSE NO. NPF-63
SUPPLEMENTAL CLARIFICATION REGARDING AN
"A" EMERGENCY DIESEL GENERATOR LUBE OIL SAMPLE

Gentlemen:

The purpose of this letter is to document a teleconference between Carolina Power & Light Company (CP&L) and the NRC staff on April 6, 1992 regarding the "A" Emergency Diesel Generator (EDG) lube oil sample #46.

On January 13, 1992, CP&L submitted a response to a December 9, 1991 NRC letter requesting additional information regarding Shearon Harris Nuclear Power Plant (SHNPP) diesel generator inspection requirements and testing. Upon reviewing CP&L's response, the NRC staff requested in the April 6th teleconference that CP&L clarify one statement in an enclosure to the January letter.

NRC Request

With regard to the Equipment Condition Report for "A" EDG lube oil sample #46, what was the basis for the conclusion stated in "Discussion of Results" that the EDG was operating normally, given that the Wear Particulate Concentration (WPC) exceeded the Alarm BH value? (The Equipment Condition Report is included as an enclosure to this letter for ease of reference.)

CP&L Response

The Alarm Band High (Alarm BH) limit is the sum of the mean of the previous sample values plus two standard deviations. It is used as a trigger to indicate that engine conditions have changed. In this case the change was the result of an extended teardown outage of the diesel to perform the required one-time five year TDI Diesel inspections. This alarm limit requires a detailed analysis of the lube oil when elevated levels of wear particles or contaminants are present in the oil. These additional analyses are performed to identify the specific types and quantities of wear particles to determine if an actual wear problem exists.

For lube oil sample #46, the wear particle concentration of 18.4 exceeded the Alarm BH of 18.3. The results from the additional analyses are displayed at the bottom of the sample report under the heading "Analytical Results." The results are graphical representations of the types and quantities of ferrous and non-ferrous wear particles, and contaminants in the lube oil.

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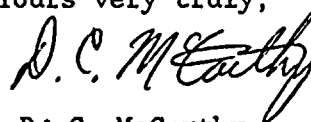
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AD 25

Based on the quantitative identification of normal rubbing wear particles, oxide wear particles and dirt present in the oil, the monitoring service reported in the Discussion of Results Section, that "... this unit is operating normally." Carolina Power & Light Company concluded that the reported WPC count was satisfactory based on this statement and on prior experience which indicates that the WPC is normally elevated following extended maintenance outages that involve diesel teardown.

Questions regarding this matter may be referred to Mr. R. W. Prunty at (919) 546-7318.

Yours very truly,



D. C. McCarthy
Manager, Nuclear Licensing

SDC/sdc

Enclosure

cc: Mr. S. D. Ebner
Ms. B. L. Mozafari
Mr. J. E. Tedrow

EQUIPMENT CONDITION REPORT

PREDICT
MaintenanceCAROLINA POWER & LIGHT CO.
NEW HILL, NC
SHEARON HARRIS NUCLEAR POWER**NORMAL**

SAMPLE ID: SHNPP-A-EDG
 SAMPLE DESC: "A" EMERGENCY DIESEL GENERATOR
 MANUFACTURER: ENTERPRISE
 LUBRICANT: MOBIL GUARD 412
 RESERVOIR CAP: 1,500.0 GAL [5,677.5 LITERS]
 TIME ON LUBE: NOT PROVIDED
 MACHINE TIME: NOT PROVIDED

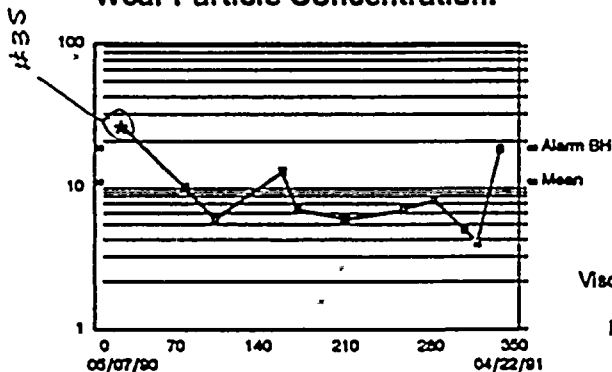
SAMPLE DATE: 04/14/91
 REC'D DATE: 05/06/91
 REPORT DATE: 05/08/91
 1st SAMPLE: 12/20/86
 PREV SAMPLE: 03/23/91 [N]
 NO. SAMPLES: 46
 PROGRAM: A1

Recommendation:

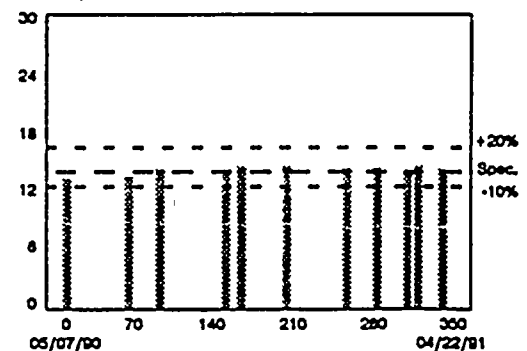
Continue with normal operation. Sample at routine intervals.

Discussion of Results:

Although the wear particle concentration has increased from 3.6 to 18.4, and is higher than the established baseline for this unit, analytical results indicate that this unit is operating normally. This sample only contains limited to moderate amounts of black oxides, red oxides, lubricant degradation, and dirt.

Wear Particle Concentration:**QUANTITATIVE RESULTS:**

WPC: 18.4
 DL: 12.5
 DS: 5.9
 Mean: 10.6
 Std Dev: 3.8
 Alarm A: 6.5
 Alarm BH: 18.3
 Alarm BL: 3.0
 Alarm MH: NOT SET
 Alarm ML: NOT SET
 Viscosity (cSt): 14.8
 Water (%): NEG
 Refrigerant: NEG

Viscosity (Spec. 14.3cSt @ 100C):**Analytical Results:**