

AUG 17 1981

MEMORANDUM FOR: T. Conlon, Chief, Plant Systems Section
THRU: A. Alderson, Acting Director, EIS
FROM: J. Y. Vorse, Regional Investigator, EIS
SUBJECT: IMPROPER CONSTRUCTION MATERIALS AND PRACTICES, SHEARON HARRIS (REFERENCE CASE 2F035)

On July 20, 1981, an allogger called and spoke with Carl Alderson wherein he expressed concerns regarding improper construction materials and practices as indicated in the enclosed Statement of Concerns.

It is my understanding, based on my conversation with T. Conlon on August 13 and 14, 1981, that J. N. Harris will address the concerns during a routine inspection scheduled sometime in early September 1981. Regarding Concern No. 6, it is requested that a review of documentation be conducted by Mr. Harris. If the problem was noted, Mr. Harris should address the concern. However, if there is no documentation reporting this incident, it is anticipated that an investigation will be conducted by the EIS and Mr. Harris should not discuss it with licensee personnel.

Please ensure that EIS is included on the concurrence list of the report and placed on special distribution for two copies of the report.

James Y. Vorse

Enclosure: Statement of
Concerns-2F035

840501001B 840403
PDR FOIA
VADEN83-413 PDR

RII:EIS
JYVorse:cmc
8/ /81

RII:EIS
CEAlderson
8/17/81

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO.
	Vorse + Geo Maxwell	DATE
	CONFIDENTIALITY REQUESTED YES NO	03-29-82
		TIME
		1535

SUMMARY

Geo Maxwell provided the following information in substance:

For the past 3 years, directed his QC civil inspectors to
 put a sample down after they take it and if it looks like it is
 going to fail, then throw it back and get a sample from another
 bin. They keep doing this until they get one & pass.

Shore's office procedure CPC 13 requires a daily aggregate
 sieve analysis per ASTM C 1367-71 and ASTM N4525
 table B. If the inspectors fail, then an NCR has to be
 written and the situation evaluated by engineering.

Got these instructions from the person in charge of QC
 inspection, name is concerned that he is
 going to be left holding the bag if the QC inspectors start
 coming back as the person who gave the instructions.
 came forward because there has been a reorganization
 and QC is now separate and he is solely responsible.

PREPARED BY	DATE
Vorse	03-29-82
ACTION REQUIRED	
Open case	
REVIEWED BY	DATE

MEMORANDUM TO CASE FILE

TYPE ACTION <input type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO.
	Vorse + Levanow	DATE
	CONFIDENTIALITY REQUESTED YES NO	04-07-82
		TIME

SUMMARY

Joe Levanow called and stated the following:

- 1) If a 200 cu yd gradation test fails, then appropriate action is taken.
- 2) If a daily test fails (done whenever batch plant is operating) then the bin is emptied and the aggregate replaced and retested.
- 3) The rejected aggregate is removed and placed in a pile. Later it is passed through screens to get the proper size of aggregate. The proper aggregate is then returned to the aggregate pile.
- 4) However, no notes are written when the test fails even though the procedure for handling failed aggregate seems in order.

1135: Joe Levanow called and advised me that he had spoken to the Supervisor who allegedly issued the order and he stated to Levanow that he had done so.

Joe Levanow is going to issue a violation for this.

PAGE OF

PREPARED BY	DATE
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ACTION REQUIRED

REVIEWED BY	DATE
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MEMORANDUM TO CASE FILE

TYPE ACTION <input type="checkbox"/> RECORD OF CONVERSATION <input checked="" type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO.
	<i>Vorse to File</i>	<i>26-025</i>
	CONFIDENTIALITY REQUESTED YES NO	DATE <i>06-16-82</i>
		TIME

SUMMARY

Joe Louchen talked to the alleged and he seemed satisfied with the explanation he received.

There is still one inspector followup item, 82-12-01 "Evaluation of Concrete Aggregate Gradation Problems"

The allegations appear to have been adequately addressed. Recommend this case be closed. A copy of the report was sent to Gen Maxwell who assured me that he would provide it to the alleged.

PAGE OF

PREPARED BY <i>Vorse</i>	DATE <i>06-16-82</i>
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ACTION REQUIRED

Concur - case closed

REVIEWED BY <i>Carl E. Cuda</i>	DATE <i>6-21-82</i>
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MEMORANDUM TO CASE FILE

TYPE ACTION <input type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input checked="" type="checkbox"/> OTHER MEETING	PARTICIPANTS <u>D. VERRELLI, P. FREDRICKSON</u> <u>D. M:GUIRE</u>	FILE NO. <u>83A032</u>
	CONFIDENTIALITY REQUESTED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	DATE <u>8/4/83</u>

SUMMARY MR. FREDRICKSON ADVISED: A TEAM (B. ANG, E. GIRARD, S. ELROD, AND HIMSELF) OF INSPECTORS DID A TECHNICAL INSPECTION INTO THE ALLEGATIONS ASSOCIATED WITH THIS CASE (7/19-22/83) AND REPORT NO. 400 + 401/83-24 IS IN TYPING.

I REQUESTED MR. FREDRICKSON TO PROVIDE A COPY OF THEIR REPORT TO US.

PAGE 1 OF 1

PREPARED BY [Signature]

DATE 8/4/83

ACTION REQUIRED I ADVISED R. BURCH (8/4/83) THAT REPORT WAS IN PROCESS.

3133

REVIEWED BY [Signature]

DATE 8/4/83

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS Vorse + Geo Maxwell - RI Harris	FILE NO. 26010
		DATE 01-25-82
		TIME
CONFIDENTIALITY REQUESTED		YES NO

SUMMARY

George Maxwell called and advised the following: who worked for CP&L as an electrical and later as a mechanical QA inspector at Harris had several concerns. She advised Maxwell that commencing Monday, 01-25-82 she would be working at in QA for Harris. She stated to George that for the past several months she has been writing with Mechanical QA and was disturbed to find that maintenance workers were signing off documentation showing they had inspected things when, in her opinion, they could not have because the items were still wrapped in polyethylene. She gave specific examples: ① Boric Acid Transfer Pumps 1A-SN and 1B-SB ② Service Water Booster Pump 1B-SB and ③ Two Tanks AH-2 (IASA), AH-1 (IBSB). She had expressed her concerns to [redacted] who is in charge of maintenance and the senior mechanical engineer. She also wrote a Y)IR (797) but this was voided by [redacted] and changed to a less significant document. I told George that I would be getting with [redacted] around [redacted] by [redacted].

Geo Maxwell called and advised that [redacted] number 15: Father's house in [redacted] area

PREPARED BY Vorse	DATE 01-25-82
ACTION REQUIRED	
REVIEWED BY	DATE 29

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS <i>Voice + Machine</i>	FILE NO. <i>26010</i>
		DATE <i>01-28-82</i>
		TIME <i>10:30A</i>
CONFIDENTIALITY REQUESTED YES NO		

SUMMARY

I called the number which had been provided by Geo Maxwell where I can get hold of ~~it~~. I got an answering machine and I asked it to have her call me back collect + gave my number.

PAGE OF

PREPARED BY	DATE
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ACTION REQUIRED

REVIEWED BY	DATE <i>28</i>
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OFFICIAL USE ONLY — DO NOT DISCLOSE

30 19

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO
	Vorse + Geo Maxwell (RT Harris)	26-010
	CONFIDENTIALITY REQUESTED YES NO	DATE 02-03-82
		TIME 12:45P

SUMMARY

I spoke with G Maxwell and he advised that ~~now~~ a DDR has been written concerning a complaint and it is very similar in wording to the copy had earlier provided to Maxwell. A DDR (Deficiency and Disposition Report) goes to higher management and it requires a response regarding corrective action to prevent recurrence.

An NCR (Nonconforming Condition Report) does not go to higher management and does not get the corrective action to prevent recurrence response.

Also, the monthly inspection is referring to is a plant requirement and therefore a violation.

Maxwell said he would forward the DDR and speed letters that had turned over to him.

PREPARED BY Vorse	DATE 02-01-82
ACTION REQUIRED	
REVIEWED BY	DATE 29

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS <u>Vorse H</u> <u>(Allyer)</u>	FILE NO. <u>26010</u>
	CONFIDENTIALITY REQUESTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	DATE <u>01-28-82</u>
		TIME <u>7:00 PM</u>

SUMMARY

I called _____ and changed it to one 5507 number stated that about 17 or 20 JANUARY 1982 _____ was on a surveillance with a maintenance crew and I observed inspections being signed ~~on~~ on forms but not actually performed. _____ added that the incident took place about 20 JANUARY. What occurred is, on several basic acid tanks ^{transfer} valves were covered with polyethylene wrapping (loose or taped) and the inspection crews were signing the books as having performed the inspection (looking for damage etc) and signing off the bin w/o actually looking at the Valves. I am concerned about the training the individuals have received. For example, one of the people is a millwright by trade and not qualified, in his opinion, to perform the inspections. Also, _____ was upset because _____ wrote a DDR and Geo Forehand turned it down saying it was unaccounted and that a CTR which is far significant stated _____ base (at Harris) that _____ had spoken to Geo Maxwell.

I asked for the names of the inspectors and _____ could not recall them off hand _____ did say _____ would find out and get back w/ me. I asked to put concerns in writing and get sent it to me at the OD/INV box.

PAGE 1 OF 1

PREPARED BY <u>Vorse</u>	DATE <u>01-29-82</u>
ACTION REQUIRED	
_____ _____ _____	
REVIEWED BY	DATE <u>28</u>

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO.
	Vorse + Geo Maxwell (RT Harris)	26-010
	CONFIDENTIALITY REQUESTED YES NO	DATE 02-03-82
		TIME 12:45 P

SUMMARY

I spoke with G Maxwell and he advised that ~~now~~ a DDR has been written concerning ⁴ complaint and it is very similar in wording to the copy she had earlier provided to Maxwell. A DDR (Deficiency and Disposition Report) goes to higher management and it requires a response regarding corrective action to prevent recurrence.

An NCR (Nonconforming Condition Report) does not go to higher management and does not get the corrective action to prevent recurrence response.

Also, the monthly inspection ^{is referring to} is a plant requirement and therefore a violation.

Maxwell said he would forward the DDR and speed letters that had turned over to him.

PREPARED BY Vorse	PAGE OF
ACTION REQUIRED	DATE 02-04-82

REVIEWED BY	DATE 29
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To: E.E. Whitth
Van Libson

From: Tom McLeedy

Subject: Maintenance of Safety Related Equipment

MESSAGE

Date: 10/20 1951

During a maintenance check of safety related equipment, the following was noted. It was noted that the maintainer performing the maintenance did not note the position of the shaft prior to rotating, thus he was unaware if the shaft stopped in the same position. This is a violation of AP-XIII-07. The maintenance man also indicated that several pieces of equipment are not to be inspected for physical damage, etc. A door handle to Air Handler 10-11 was broken, but was not noted by the maintenance crew who performed an inspection on that unit. It was also noted that the maintenance people are not aware of the requirements set forth by WP-106 or AP-XIII-07 but rather verbal instructions from their foreman.

Signed Tom McLeedy / J.H. Taylor

REPLY

Date: _____ 19____

23
10/24

From George [unclear]
11

This note was
attached to the
voided DDR



Frank:
I don't see that this is
DDR level unless there
is something I'm not
aware of.

JIM the attached
DDR was VOIDED AND
another one was written
on 1-22-82 (DDR # 204)
George

23
~~22~~
20

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO
	Vorse + Geo Maxwell	DATE
	CONFIDENTIALITY REQUESTED YES NO	TIME

02-09-82
1715

SUMMARY

George Maxwell (Resident Inspector, Haces Site) called and advised me that inspections were required and signed off since mid-1980 and it appears they were never performed. These inspections were supposed to be for Megger Readings, looking for moisture in the motor windings (insulation resistance) on the 150 ton Fuel Handling Crane. However, Maxwell determined that the tests could not have been performed because there were no means available since the covers were taped down and painted over. George contacted the ^{MAINTENANCE} worker who said he must not have inspected the crane. This was not an inspector who did the signing off. The crane was stored outside but it was under the administrative control of the warehouse. All of the maintenance workers are under the supervision of Flaney Caster

PREPARED BY	PAGE OF
	DATE
ACTION REQUIRED	
REVIEWED BY	DATE
	19 21

19 21
24

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS <i>Vorse + Maxwell</i>	FILE NO.
	CONFIDENTIALITY REQUESTED YES NO	DATE <i>02-17-82</i>
		TIME

SUMMARY

I called Gus Maxwell and asked him if the failure to inspect the crane was in violation of NRC requirements. Maxwell stated that 10 CFR Part 50 Appendix B, Criterion ~~V~~ or ~~IX~~ requires the inspections and that Harris P6-D-001 Rev 22 and P6-D-002 Rev 15 are the implementing procedures.

Based on the discovery regarding the 150 ton crane saws major tests, DDR # 815 was generated and addresses 7 areas of complaint, one of them refers to the lack of major checks which were supposed to be inspected. Apparently, these checks were supposed to be conducted every three months.

- man not inspecting but signing - *[Alan Reilly]*
- new supervisor - *[Gus Johnson]*
- Supervisor over maintenance - *[Henry Carter]*
- QA Supervisor - *[Dave Whitcomb]*

PREPARED BY <i>Vorse</i>	DATE <i>82-02-17</i>
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ACTION REQUIRED

REVIEWED BY	DATE <i>18</i>
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EQUIPMENT IN-STORAGE MAINTENANCE SHEET

Name: Fuel Handling Building - Cast Crane
(150 TON)

Equipment Purchase Order No.: WY435202

Model (if necessary): Kranco

Serial No: (if necessary): 8353

Reference: Kranco OPERATING AND MAINTENANCE MANUAL
FOR S.H.N.P.P.

Material Required: 1) RUST VETO 210
2) Approved polyethylene
3) Dessicant
4) CRC Lectra Shield CONTACT spray
5) SEE ATTACHED CHARTS FOR OTHER LUBRICANTS

PROCEDURE: Initially:

~~Personnel Required:~~

- 1.) Inspect FOR DAMAGE AND DETERIORATION. Repair AND Treat with Rust preventive AND/OR PRIMER where needed.
- 2) Cover Hoist Brake with Approved Poly. AND place dessicant INSIDE poly ~~Procedure~~ To Absorb ~~moisture~~ trapped moisture.
- 3) DRAIN AND Fill ALL Reservoirs with Rust Veto 210.
- 4) Inspect AND MEGGER ALL motors. SEE MEGGER SHEET FOR Frequency Approval. Cover Motors with Approved poly.
- 5) Spray silver surfaced contacts with CRC Lectra shield. Do not get lubricant on insulation. Cover ALL Electric PANELS with Approved Poly.
- 6) Inspect AND ADD Lubricating grease IF NECESSARY in ALL TITINGS AND journals.

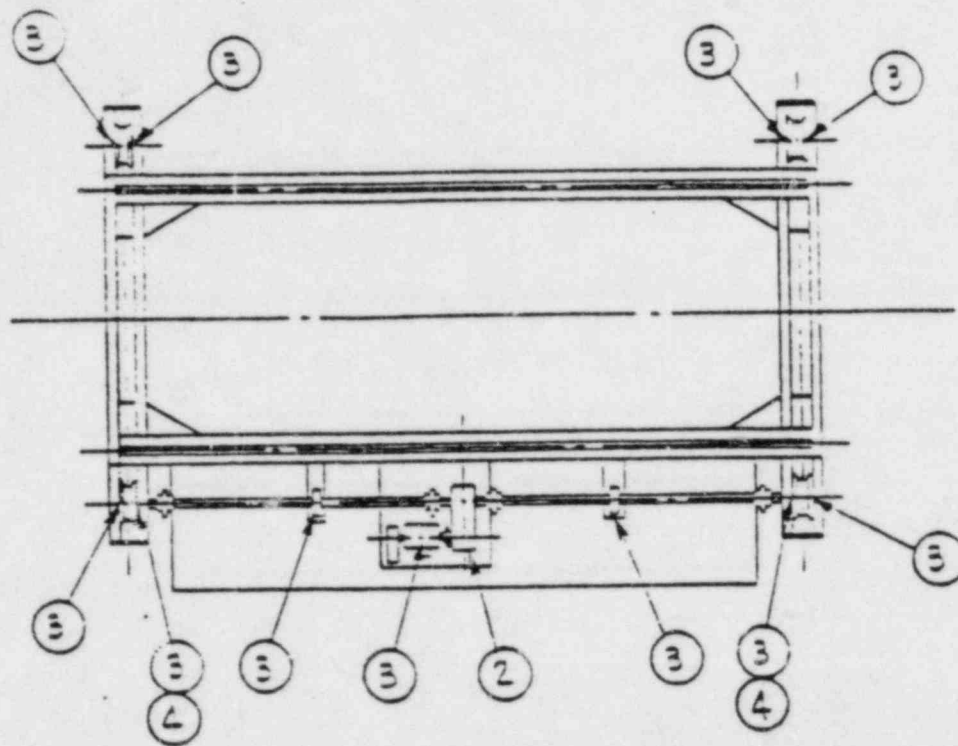
MONTHLY: 1) ROTATE SHEETS AND ROLLERS WITH 50. HP OR QUOTE
SEVERAL TIMES TO DISTRIBUTE LUBRICANT. DO NOT STOP
AT SAME POSITION EACH TIME.

EVERY THREE MONTHS: 1) ROTATE HOIST BRAKE SEVERAL TIMES TO
DISTRIBUTE LUBRICANT. DO NOT STOP AT SAME
POINT EACH TIME. INSPECT LUBRICANT AND REPLENISH
IF NECESSARY.
2) VISUALLY INSPECT CRANE FOR ANY PROBLEMS
AND REPORT DISCREPANCIES TO DISCIPLINE
MECHANICAL ENGINEER.
~~3) INSPECT LUBRICANT PACKAGE IN HOIST BRAKE.~~

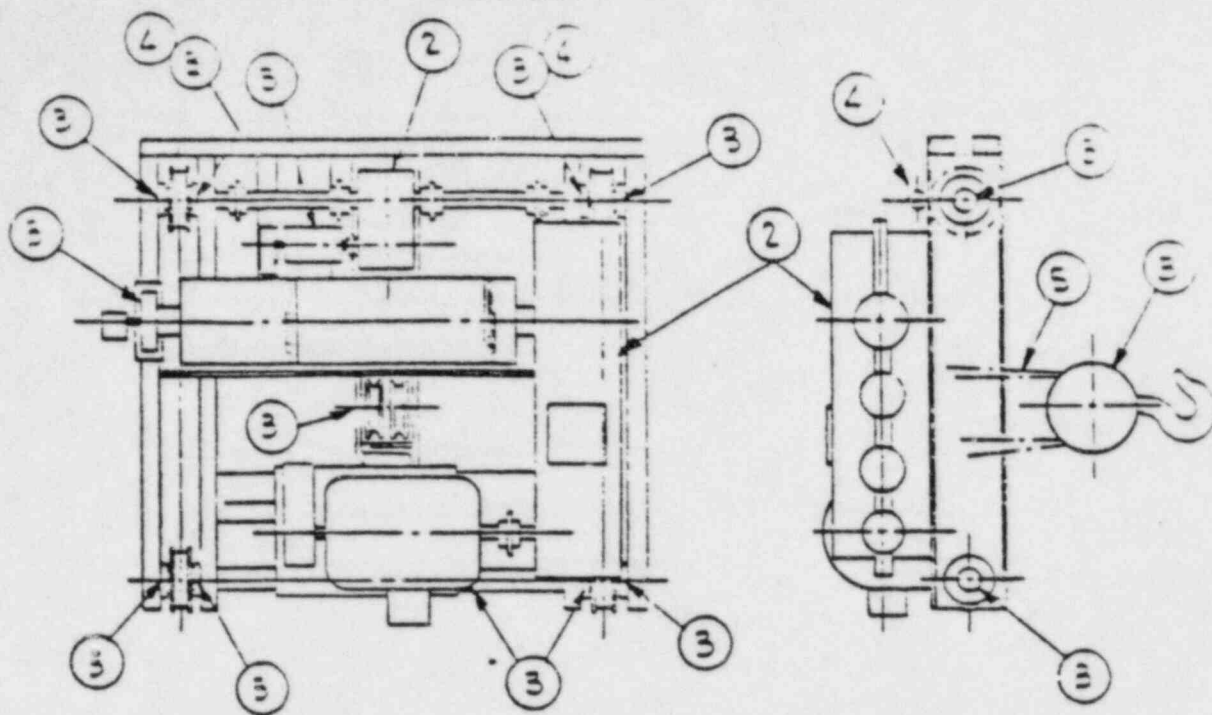
EVERY SIX MONTHS: 1) ROTATE HOIST THRU ONE CYCLE PLUS 90°
2) INSPECT ALL ELECTRICAL PANELS FOR SIGNS
OF DETRIORATION. REPAIR IF NECESSARY AND
RE-COVER W/POLY.

ANNUALLY: 1) REPEAT INITIAL INSTRUCTIONS AS NECESSARY
2) INSPECT AND RELUBRICATE AS NEEDED.
3) REPORT ANY PROBLEMS OR POTENTIAL PROBLEMS TO
DISCIPLINE MECH. ENGINEER.

LUBRICATION CHART
BRIDGE



Lubricant Manufacturer	1	2	3	4	5
	Right Angle Speed Reducer	Kranco Parallel Speed Reducer Or Manufs. Rec.	Wheel, Pillow Block, And Motor Brgs.	Open Wheel Ring Gears, Pinions	Cable Dressing
Continental Oil Company	Conoco Inca Oil	Dectol 76 R & O Oil	EP Conolith Grease #1	Coglube #9 (Hot) Coglube #7 (Cold)	Pinol Lubricant
Gulf Oil Corporation	EP Lubricant S-120	EP Lubricant S-120	Precision Grease E.P. #2	Lubcote #3	Lubcote #3
Exxon	Terrestic #100	Terrestic #100	Exxon Libok EPI	Surret Comp. 270 (Hot) Surret Fluid 30 (Cold)	Rustban #383
Shell Oil Company	Omala Oil 220 Spirax HD 85W-90	Omala Oil #220	Alvania E.P. #2	Omala Oil H	Omala Oil H
Atlantic Richfield	Pennent NL S-100	Pennent E.P. NL S-100	Caldron E. P. #2	Onyx 8	Eclisse 1050 H
Texaco, Inc.	Meropa #220	Meropa #220	Multifak E. P. #2	Crater LX (Hot) Crater 2X (Cold)	Crater A



	1	2	3	4	5
Lubricant Manufacturer	Right Angle Speed Reducer	Kranco Parallel Speed Reducer Or Manufs. Rec.	Wheel, Pillow Block, And Motor Brgs.	Open Wheel Ring Gears, Pinions	Cable Dressing
Gulf Oil Corporation	EP Lubricant S-120	EP Lubricant S-120	Precision Grease E.P. #2	Lubcote #3	Lubcote #3
Continental Oil Company	Conoco Inca Oil	Dectol 76 R & O Oil	EP Conolith Grease #1	Coglube #9 (Hot) Coglube #7 (Cold)	Pinol Lubricant
Exxon	Terrestic #100	Terristic #100	Exxon Libok EPI	Surret Comp. 270 (Hot) Surret Fluid 30 (Cold)	Rustban #383
Shell Oil Company	Omala Oil 220 Spirax HD 85W-90	Omala Oil #220	Alvania E.P. #2	Omala Oil H	Omala Oil H
Atlantic Richfield	Pennent NL S-100	Pennent E.P. NL S-100	Caldron E.P #2	Onyx 8	Eclipse 1050 H
Texaco, Inc.	Meropa #220	Meropa #220	Multifak E.P. #2	Crater 1X (Hot) Crater 2X (Cold)	Crater A

Name: 150 TON CRANES

Equipment Purchase Order No.: NY 202

Model (if necessary): Kranco

Serial No. (if necessary): 8353

Reference: Kranco operating and maintenance manual for Shearon Harris Nuclear Power Plant

Material Required: 1) Rust Veto 210
2) Approved Polyethylene
~~3) Desiccant~~
4) CRC Lectra Shield Contact Spray
5) See Attached Charts FCR other Lubricants

Procedure:

Initially:

- 1) Inspect for damage and deterioration . Repair and recoat with rust preventive and/or primer where needed.
- 2) Cover hoist brake with approved polyethylene and place desiccant inside polyethylene to absorb trapped mixture.
- 3) Drain and fill all reservoirs with Rust Veto 210.
- 4) Inspect and megger all motors. See megger sheet for frequency approval. Cover motors with approved polyethylene.
- 5) Spray silver surfaced contacts with CRC lectra shield. Do not get lubricant on insulation. Cover all electric panels with approved polyethylene.
- 6) Inspect and add lubricating grease if necessary in all fittings and journal.

Monthly: 1) Rotate shafts and motors with 25. HP or greater several times to distribute lubricant. Do not stop at same point each time.

Every Three Months: 1) Rotate hoist brake several times to distribute lubricant. Do not stop at same point each time. Inspect desiccant and replace if necessary.

2) Visually inspect crane for any problems and report discrepancies to Discipline Mechanical Engineer.

Every Six Months: 1) Rotate hoist thru one cycle plus 90°

2) Inspect all electrical panels for signs of deterioration. Recoat if necessary and re-cover with polyethylene.

Annually: 1) Repeat initial instructions as necessary

2) Inspect and relubricate as needed

3) Report any problems or potential problems to Discipline Mechanical Engineer.

MEGGER APPROVAL SHEET

Equipment Name: 150 TON CRANE 100 H.P. Motor ①
Equipment Purchase Order No.: NY 202 10 H.P. " ②
Model (if necessary): KRANCO 6.5 H.P. " ③
Serial No. (if necessary): 8353 5 H.P. " ④

Material required:
(1) Megger (DC) volt *

Personnel required:
1. One electrician

Procedure:

Every Second Month:

1. Inspect and megger motor every second month over a period of four (4) months.

Every Third Month:

1. After the four (4) month period stated above, if approved by the Discipline Electrical Engineer, inspect and megger motor every third month thereafter.

Approval J. R. Bell Date 4-21-81

Recommendations (if necessary) _____

* NOTE: Record scale reading (highest) from meter face and indicate this value on the log sheet. If megger reading exceeds the upper most limit of the meter record the upper most reading followed with a +, (eg: 500 + mΩ) in lieu of ∞ (infinity).

Rev. 2
12/80

WAREHOUSE MAINTENANCE LOG

Exhibit 1
AP XIII-07

150 Ton Crane

SCHEDULE MAINTENANCE

MAINTENANCE PERFORMED

EQUIPMENT / TAG NO.						INSPECT	MEGGER PRODS	ROTATE SHAFTS	NITROGEN PURGE	EXCER- SIVE HAIST	ROTATE HAIST BRAKE IF POSSIBLE	MAINTENANCE PERFORMED						YEAR
ITEM NO.	QTY	EQUIP TAG NO.	LOCATION	MODEL	SERIAL NO.							INSPECT	MEGGER PRODS	ROTATE SHAFT	NITROGEN PURGE	EXCER- SIVE SHAFT	ROTATE HAIST BRAKE IF POSSIBLE	
1	1	435202	12-A-6	Kiyako	8353	✓	✓ ✓ ✓	✓				12-19-82			JAN			
MAINTENANCE REQUIRED																		
INSPECT	MEGGER	ROTATE SHAFTS	NITROGEN PURGE	HAIST				✓							FEB			
✓	✓	✓		✓				✓			✓				MAR			
CALIBRATED INSTR REQ'D		RECEIVED DATE																
MEGGER	OTHER	RATED HP						✓							APR			
✓								✓							MAY			
① 100 HP								✓		✓	✓				JUN			
② 10 HP								✓							JUL			
③ 65 HP								✓							AUG			
④ 5 HP								✓							SEP			
LUBRICATION INFORMATION:								✓			✓				OCT			
NOTE INITIAL & DATE EACH ITEM UPON COMPLETION OF MAINTENANCE								✓							NOV			
ENERGIZED SINCE HEATERS: DATE								✓							DEC			
PREPARED BY: <i>Thurston</i>								✓		✓	✓							
APPROVED BY: <i>Thurston</i>								✓		✓	✓							

Name: 150 Ton Crane

Equipment Purchase Order: NY-435202

Model (if necessary): KRANCO

Serial Number (if necessary):

Reference: KRANCO Operating and Maintenance Manual

Material Required:

1. Rust Veto 210
2. Approved Polyethylene
3. Dessicant
4. CRC Lectra Shield Contact Spray

Personnel Required:

Procedure:

Initially:

- 1) Inspect for any damage or deterioration - repair and recoat with rust preventative and/or primer where needed.
- 2) Cover hoist brake with approved polyethylene and place dessicant inside polyethylene to absorb moisture.
- 3) Drain and fill all reservoirs with Rust Veto 210.
- 4) Inspect and megger all motors. Cover motors with approved polyethylene.
- 5) Spray silver surfaced contacts with CRC Lectra Shield. Cover all electric panels with approved polyethylene.
- 6) Add lubricating grease to all grease fittings if needed.

Monthly:

- 1) Rotate motors 25 Horsepower and greater 5-10 revolutions.

Every Three Mo.:

- 1) Rotate hoist brake several times.
- 2) Visually inspect crane, reporting any problems to Mechanical Engineering.

Every Six Mo.:

- 1) Exercise hoist through one complete cycle.

Annually:

- 1) Inspect and relubricate as necessary.

Speed Letter.

201 802

To FAM McCURDY
G. A. (MECH)

From VAN WILSON
MECHANICAL

Subject INSTRUCTIONS ON PERMANENT PLANT EQUIPMENT

-NO. 10 FOLD

MESSAGE

Date 10/26 1951

THE MAINTENANCE CREW FOREMAN WAS INSTRUCTED BY MECHANICAL ENGINEERING ON 10/22/51 TO RE-EMPHASIZE TO HIS CREW THE IMPORTANCE OF GIVING A GENERAL INSPECTION TO PERMANENT PLANT EQUIPMENT DURING REGULAR MAINTENANCE ACTIVITIES. IT WAS ALSO STRESSED THAT ANY DAMAGE TO EQUIPMENT FOUND BY THE CREW SHOULD BE REPORTED TO THE SUPERVISOR THEN TO MECHANICAL ENGINEERING FOR EVALUATION. A SPEEDLETTER FROM MYSELF TO HARRY CASTER ALSO STATING THE ABOVE WAS SENT 9/14/51.

SHAFTS ARE NOW BEING MARKED IN ~~AN~~ AN EFFORT TO DETERMINE WHETHER OR NOT THEY ARE BEING ROTATED IN ACCORDANCE WITH AP XIII-07
PC-U-002

-NO. 10 FOLD

-NO. 10 FOLD

Signed VAN WILSON

REPLY

Date _____ 19____

-NO. 10 FOLD

Signed

131527

All
Work
Approved
Moved lights
on premises to
work by
Charger Pump
getting trail on
them from 242
level
Start types
Re. V. Wilson
Inspect Trade
Main lights on
Snapper to work by

12/10/81

ANTI-FORM SKID WPB 236

REPORTED BY H. GASTER

POSSIBLE DAMAGE FROM DISSASSEMBLY OF SCAFFOLDING ABOVE.

WILL EVALUATE AT A LATER DATE WHEN BLASTING IS COMPLETED IN AREA.

V. WILSON

4
28/6

Shearon Harris
Nuclear Generating Station
New Hill, N.C.

February 23, 1982, 11:5

I, [Harry O. Gaster] hereby make the following voluntary statement to Mr. J. Y. Vorse who has identified himself to me as an Investigator with the U.S. Nuclear Regulatory Commission. I make this statement freely with no threats or promises of reward having been made to me. Mr. Vorse is writing this statement for me at my request.

I am the Supervisor of the maintenance crew. I have been working for Daniels Construction Company for 3 years, all of them at Shearon Harris. I have 24 years of mechanical experience.

I had only two people doing ^{visual} maintenance inspection, of whom worked for me about 1 year before they were laid off on approximately February 12, 1982. They were both Daniels Millwrights named [Grady Smith] and [Jess Ellison]. During approximately December 1981 I instructed [Smith] and [Ellison] not to remove the covers from the equipment if there was sandblasting going on because it could cause damage to the equipment. This was because sandblasting commenced in the area where the Boric Acid pumps are located and the Air Handlers and service water booster pump were in the vicinity. I instructed them that way on my own initiative without instruction from higher authority.

[Harry Gaster] 29 8

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I felt there could be less damage if the poly was not disturbed as long as the megger wires were out from underneath and no rotation was required.

I also instructed [Grady] and [Ellison] that if they could not inspect the equipment as per the working log then they were to tell me and I would note it on the "other" portion of the Field Maintenance Log.

On the day of the inspection, from which DDR 804 was written, [Grady Smith] told me that he had found rust on the pump coupling and sheet on the Service Water Booster Pump. I then had two painters go and clean the rust and put on some preservative. This leads me to believe that [Smith] and [Ellison] at least rotated the sheet as required per the inspection procedure.

By not removing the covers, they were not able to look for paint deterioration. I looked at the Service Water Booster Pump after the DDR was written. The pump was covered by Poly and it was taped down. There was no way it could have been removed. I asked [Grady] if he had removed the cover and he said "no" and words to the effect "[Harry] you told me not to."

I asked [Grady] how he had signed off the inspection and [Grady] assured me that (Service Water Booster Pump) he had looked at the couplings and sheet so that he was assured that he had looked at
[Harry Houston]

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enough of it. I explained to them that they are not to sign anything saying they had done something when they hadn't really done it but to tell me so that I could write it down on the Field Maintenance Record. However, I never told them to write anything for anybody if the covers were not removed.

I acknowledge that the pumps were not properly checked for joint damage due to the fact that the poly was not completely removed. But, in my opinion more damage would have resulted from removing the poly and getting sand or dust on the equipment.

I would also like to note that DDR-804 shows two pumps (Bois acid) for inspection. Inspection of these pumps are not scheduled for inspection until April 1982.

I have read the foregoing statement consisting of three handwritten pages. I have made any necessary corrections and have initialed them in ink. I have signed the first two pages at the bottom. This statement is the truth to the best of my knowledge and belief. I declare under penalty of perjury that the foregoing is true and correct.

[Harry Hester]

DATE AND TIME 2-23-82 12:52 PM

[Signature]
Respectful Investigator

MEMORANDUM TO CASE FILE

TYPE ACTION <input checked="" type="checkbox"/> RECORD OF CONVERSATION <input type="checkbox"/> CASE REVIEW / STATUS <input type="checkbox"/> OTHER	PARTICIPANTS	FILE NO.
	VORSE	2F017
		DATE 5/6/81
	CONFIDENTIALITY REQUESTED	YES NO
		TIME 1345

SUMMARY

RETURNED MY CALL AND I ADVISED HIM WE WERE CONCERNED AS TO MEANING REGARDING HIS ALLEGATION EXPLAINED THAT IS A WELDING INSPECTOR WORKING IN THE WELDING INSPECTION BRANCH, IRON WORKERS FAB SHOP DURING SEISMIC WORK (SAFETY RELATED). FEELS THERE IS CONFLICT IN WHAT SHE TELLS CO-WORKERS AS TO HOW MANY YEARS EXPERIENCE SHE HAS. IN OTHER WORDS, SHE SEEMS TO BE LYING ABOUT HER EXPERIENCE AS FAR AS TIME IN HER FIELD. BELIEVES SHE HAS INADEQUATE KNOWLEDGE ABOUT HER JOB. THINKS SHE SHOULD BE SCRUTINIZED AS TO VALID QUALIFICATIONS. HE COULD NOT PROVIDE ANY FURTHER INFORMATION.

PAGE OF

PREPARED BY VORSE	DATE 05-06-81
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ACTION REQUIRED

REVIEWED BY	DATE
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