

RFO WEEKLY STATUS REPORT

* Attachment

F. Arnold
J. Nobbs
* R. Tomchuk
N. Heaton
R. Haines
W. Heady
D. Maxwell
J. McGraw
R. Simpson
H. Stapleton
J. Whetsel
G. Bishop
* R. Cothren
* N. Covington
* D. Demello
* E. Heinz
B. Helmandollar
* J. Blosser
* J. McLaughlin
* R. Meador
* C. Naslund
A. Staggs
* P. Vaughn
K. Day
* W. Whearty
J. Gearhart
* B. Sheppard
* L. Thorton
L. Keightley (Mail Code 470)
J. Rost (Mail Code 7)

[illegible]

September 12, 1983

Page 1 of 7

FROM: R. H. Pererson Release for Operations Coordinator

SUBJ: Release for Operations, Package Identification

* = Indicates a change to that entry

1. Turnover Package Totals: Last Week:

| | |
|-----------------------------------|----|
| * New Package Preparation.....4 | 5 |
| * At SE (Review).....7 | 7 |
| * Final Package Preparation.....0 | 1 |
| * At SE (Acceptance).....3 | 2 |
| * At OPS (Review/Walkdown).....2 | 1 |
| At SE (Cat 1/Signatures).....12 | 12 |
| At OPS (Acceptance).....2 | 2 |
| Turned Over.....37 | 37 |
| TOTAL 67 | 67 |

2. Package Identification:

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|--|-----------------------------|
| AD-1 | ADA ADB AP | At OPS (Review) 08-25-83 |
| AK-1 | AKA AKB AKC PGK | At SE (Review) 07-11-83 |
| AN-1 | ANA ANB KAY KSY LDY LFY QJY QNY | TURNUD OVEK 01-05-83 |

| | <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|---|--------------------|--|--|
| | AN-2 | AND ANE | At SE (Signatures) 06-02-83 |
| * | AQ-1 | AQA AQB | At SE (Review) 09-08-83 |
| | CA-1 | CA | TURNED OVER 07-19-83 |
| | CB-1 | CB CB-1 | At SE (Signatures) 08-01-83 |
| | CD-1 | CD | TURNED OVER 08-31-83 |
| | CF-1 | CF | TURNED OVER 08-16-83 |
| | CG-1 | CG | At SE (Review) 05-24-83 |
| | DA-1 | DAA (Partial) DAB | New Package Preparation 08-22-83 |
| * | DD-1 | DD QNV RPV | New Package Preparation 09-08-83 |
| | DE-1 | DEC DEI DEJ DEK DEL DEO DEQ DER KDY (Partial) KFU QJU QNU RPU RZU | TURNED OVER 07-07-83 |

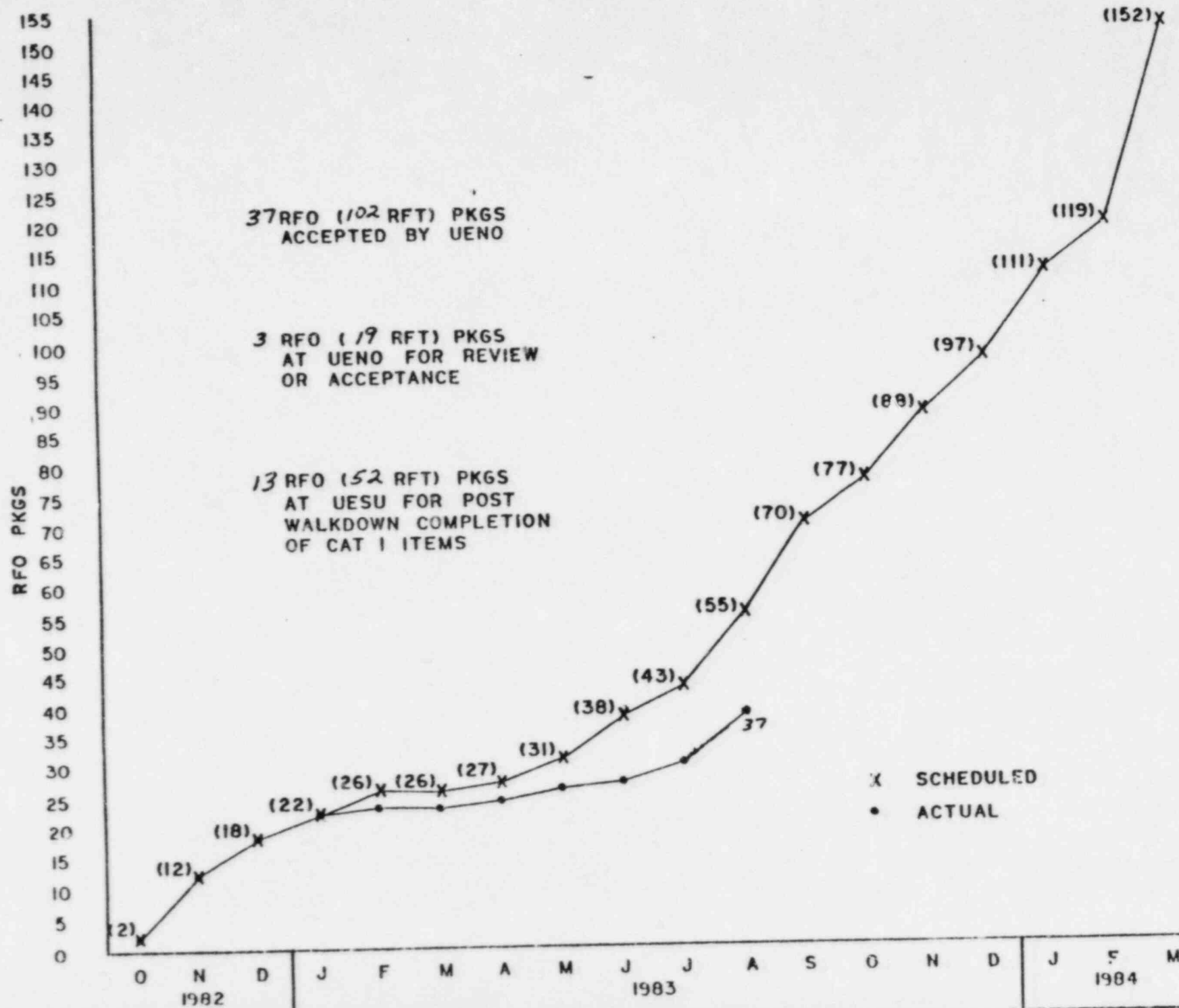
| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|--|
| DE-2 | DC DEA DEB DED DEE DEF DEG DEG-1 (Partial) DEM KAZ KFZ LFZ PQZ QAZ QDZ QGZ QNZ RPZ | At SE (Signatures) 08-04-83 |
| EB-1 | EB | TURNED OVER 04-06-83 |
| EC-1 | ECA (Partial) ECB ECC ECD-1 | At SE (Signatures) 07-26-83 |
| EC-2 | ECA (Partial) | TURNED OVER 11-10-82 |
| EG-1 | EGA EGB EGC | New Package Preparation 08-25-83 |
| FA-1 | FA FBA FE | At OPS (Acceptance) 08-31-83 |
| FB-1 | FBB FBC-1 FBC-2 | New Package Preparation 08-22-83 |
| FC-1 | FCA FCB FCC | At SE (Acceptance) 07-26-83 |
| GA-1 | GAA GAB | At OPS (Review) 09-08-83 |

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|---------------------------------|
| GF-1 | GFP GFS | TURNED OVER 01-05-83 |
| GF-2 | GFY | TURNED OVER 01-05-83 |
| GF-3 | GFU | At SE (Review) 06-22-83 |
| GF-4 | GFV | TURNED OVER 02-07-83 |
| KA-1 | KAG | TURNED OVER 10-26-82 |
| KA-2 | KAJ | TURNED OVER 10-26-82 |
| KA-3 | KAA KAB KAC KAD KAE KAF KAH KAI KAK KAL KAM KAN KAP | At OPS (Acceptance) 08-08-83 |
| KC-1 | KCG KCK KCT-1 KC-2 KC-6 (Partial) KC-8 QJT RZT | TURNED OVER 11-15-82 |
| KC-2 | KCT-2 QNT | At SE (Signatures) 06-15-83 |
| KC-3 | KCP KCQ KCR KCS KCU KCV KCW KCX KCY KCX KC-7 | At Se (Signatures) 08-26-83 |

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|--------------------------------|
| KD-1 | KDH | TURNED OVER 11-05-82 |
| KD-2 | KDB KDD KDE KDF KDY (Partial) | TURNED OVER 08-31-83 |
| KE-1 | KEA-1 | TURNED OVER 11-04-82 |
| KE-2 | KEA-3 KEA-5 | TURNED OVER 11-08-82 |
| KE-3 | KEA-4 | TURNED OVER 11-15-82 |
| KF-1 | KFX | TURNED OVER 08-08-83 |
| KH-1 | KHA-1 KHF (Partial) | At SE (Review) 05-27-83 |
| LE-1 | LEP | TURNED OVER 12-16-82 |
| LF-1 | LFC | TURNED OVER 11-15-82 |
| MR-1 | MR PAA-1 (Partial) PAA-2 (Partial) | TURNED OVER 12-21-82 |
| NB-1 | NBA NBB NBC | At SE (Acceptance) 09-08-83 |
| NG-1 | NGA NGB NCC NGD NGE NGG NGH | At SE (Signatures) 07-11-83 |
| NN-1 | NNA NNB | At SE (Signatures) 08-02-83 |

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|--------------------------------|
| PB-1 | PBA | At SE (Signatures) 02-23-83 |
| PB-2 | PBX | At SE (Signatures) 03-03-83 |
| PB-3 | PAB (Partial) PAZ (Partial) PBZ | TURNED OVER 06-17-83 |
| PG-1 | PGS PGT | TURNED OVER 11-23-82 |
| PG-2 | PGA PGB PGC PGD PGF (Partial) PGG PGH | TURNED OVER 12-21-82 |
| PG-3 | PAB (Partial) PAB-1 (Partial) PGQ PGU PGV PGW PGX PGY PGZ | TURNED OVER 07-19-83 |
| PG-4 | PGP | TURNED OVER 08-23-83 |
| PJ-1 | PJ | At SE (Review) 06-08-83 |
| PK-1 | PKA PKB | At SE (Signatures) 05-23-83 |
| PK-2 | PKZ | TURNED OVER 05-10-83 |
| PK-3 | PKC PKD PKP PKQ PKR PKS PKT PKU PKV PKX PKY | TURNED OVER 05-27-83 |

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|--|--|
| PN-1 | PN | At SE (Signatures) 02-14-83 |
| QA-1 | QAA-1 (Partial) QAA-2 (Partial) QAA-3 (Partial) | TURNED OVER 11-15-82 |
| QA-2 | QAS QAT QAU QAV QAX QAY | TURNED OVER 08-18-83 |
| QD-1 | QD-6 | TURNED OVER 11-15-82 |
| QD-2 | QDT QDU QDV QDX QDY | TURNED OVER 08-16-83 |
| QF-1 | QFA-6 | TURNED OVER 12-13-82 |
| RM-1 | RM | At SE (Review) 08-22-83 |
| RJ-1 | RJA RJB-1 RJB-2 | TURNED OVER BY LETTER 12-10-82 |
| RK-1 | RK | TURNED OVER BY LETTER 12-10-82 |
| RT-1 | RT-1 RT-2 | PREVIOUSLY ST. TURNED OVER BY LETTER 01-17-83 |
| SK-1 | SKAA-1 SKAA-2 SKAB SKAC SKBB SKE-1 SKF-1 SKGA-1 SKGB-1 SKGC-1 SKHA-1 SKHB-1 SKHE-1 SKHF SKHG-1 SKHH-1 | To SE (Acceptance) 08-16-83 |



DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE PN-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-4-83

DESCRIPTION INSTRUMENT AC POWER

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) PN 2) 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO M. Haag

UESU D. Fonner

TOTAL OF CAT. I ITEMS RE 1 SWR 1

RED 1 SFR 2

MAJOR RESTRAINTS TO RFO S/U to complete retest of DCP-E-32 ref. Swr-PN-05.

Re-connect permanent power at transformers ref. SWR-PN-04.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE PB-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-14-83

DESCRIPTION MEDIUM VOLTAGE (4160)

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) PBA 2) 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO M. Haag

UESU D. Fonner

TOTAL OF CAT. I ITEMS RE 0 SWR 1

RED 4 SFR 9

MAJOR RESTRAINTS TO RFO FJ-200-502 is complete pending calibration re-test and vendor verification.

RE-074A requires final closure.

SWR's to be issued for DCP-E-65, seismic problem with mounting the new components has been tentatively resolved requiring only on-site activities.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE PB-2 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-28-83

DESCRIPTION 4.16KV Bus and Kirm's PB121, PB122, PB123

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) PBX 2) _____ 3) _____ 4) _____ 5) _____

6) _____ 7) _____ 8) _____ 9) _____ 10) _____

11) _____ 12) _____ 13) _____ 14) _____ 15) _____

16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COGNIZANT ENGINEERS UENO M. Haag

UESU D. Fonner

TOTAL OF CAT. I ITEMS RE _____ SWR 1

RED _____ SFR 1

MAJOR RESTRAINTS TO RFO ECN1165 not complete at this time (partial).

Per Mark Haag the retest will be performed during a scheduled outage 9-15-83.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE AN-2 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 5-26-81

DESCRIPTION DEMIN WTR. SUPPLY/STORAGE/XFR

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) AND 2) ANE 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO J. Moose/R. Huber

UESU J. Knox

TOTAL OF CAT. I ITEMS RE SWR 1

RED SFR 1

MAJOR RESTRAINTS TO RFO SFR-AN-50A Vendor & Bechtel recommend seal weld the thread fitting connections except instrumentation. SWR-AN-97 (Hot) fcst. completion of seal welds 8-30-83 - retest required.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE AD-1

RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 5-25-83

DESCRIPTION CONDENSATE SYSTEM

PROJECTED RFO DATE 10-1-83

SYSTEM RFT PACKAGES 1) ADA 2) ADB 3) AP 4) 5)
6) 7) 8) 9) 10)
11) 12) 13) 14) 15)
16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO S. Sandbothe

UESU S. Corcoran

TOTAL OF CAT. I ITEMS RE SWR

RED SFR

MAJOR RESTRAINTS TO RFO RE-ADA-122 insulating system (Approx. 10' to go). Hydro's to be completed after AK
accept. test, not walkdown yet. SWR-AP-016 working to term cable for DCP-CS-24,
DCP-E-43 (FE-009-009 R1 need parts FCSD WA) DCP-E-65

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE EC-1 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 6-20-83

DESCRIPTION SPENT FUEL POOL

PROJECTED RFO DATE 9-83

SYSTEM RFT PACKAGES 1) ECA 2) ECB 3) ECC 4) ECD-1 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO P. Bramstedt

UESU J. Ardu

TOTAL OF CAT. I ITEMS RE 3 SWR 4

RFD 1 SFR

MAJOR RESTRAINTS TO RFO SE will sign items 9-9-83, N-5 will be only thing remaining open.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE FC-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 6-21-83

DESCRIPTION SGFP TURBINE SYSTEM

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) FCA 2) FCB 3) 4) 5)
6) 7) 8) 9) 10)
11) 12) 13) 14) 15)
16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO Jim Lueckenhoff

UESU Jim Lueckenhoff

TOTAL OF CAT. I ITEMS RE 6 SWR 4

RFD 0 SFR 9

MAJOR RESTRAINTS TO RFO SWR's for DCP-E-47 issued.

Hydro-tests to be performed during HFT. (In-service leak test FCA-05 & FCB-03)

DATE 9-9 83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE NG-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE

DESCRIPTION 480 VAC CLASS IE

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) NGA 2) NGB 3) NGC 4) NGD 5) NGE

6) NGF 7) NGG 8) NGH 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO J. Lueckenhoff

UESU S. Broderick

TOTAL OF CAT. 1 ITEMS RE 0 SWR 13

RED 6 SFR 6

MAJOR RESTRAINTS TO RFO Material for DCP-E-34 FE-009-007 shipped 8-19-83 and FE-017-004 scheduled for 8-31-83.

Fcwp RJ-200-B no forecast on materials.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE KC-2 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 8-5-83

DESCRIPTION VALVE PIT SUMP PUMP WELDING RECP.

PROJECTED RFO DATE 9-13-83

SYSTEM RFT PACKAGES 1) KCT 2) QNT 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO S. Chomos

UESH E. Oddo

TOTAL OF CAT. I ITEMS RE SWR 1

RED SFR

MAJOR RESTRAINTS TO RFO SWR-KC-284 replacing & re-testing of PG105AB7 shunt trip device UE P.O. #87225 fcsd.

8-23-83 wrong bkr. arrived, ordered new bkr w/shunt trip device PO. #87326 fcsd (WA)

Delcon (THED136060WL).

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE NN-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 8-15-83

DESCRIPTION Instrument AC Power

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) NNA 2) NNB 3) _____ 4) _____ 5) _____
6) _____ 7) _____ 8) _____ 9) _____ 10) _____
11) _____ 12) _____ 13) _____ 14) _____ 15) _____
16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COGNIZANT ENGINEERS WENO J. Luckenhoff

UESU D. McCullough

TOTAL OF CAT. I ITEMS RE _____ SWR _____

RED _____ SFR _____

MAJOR RESTRAINTS TO RFO 2SN-8326-E Conduits entering W cabinets at points other than the conduit entry plate.

W to resolve, possible re-test for seismic analysis report

Forecast by W for 9-15-83.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE CB-1 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 8-15-83

DESCRIPTION MAIN TURBINE LUBE OIL

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) CB 2) CB-1 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO S. Sandbothe

UESH J. Gloe

TOTAL OF CAT. I ITEMS RE SWR

RED SFR

MAJOR RESTRAINTS TO RFO SWR written to de-term cables in TVCB01 to allow cable for DCP-CS-67 to be pulled in.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE DE-2 RFO EXPEDITOR M. Keating

SCHEDULED RFO DATE 8-30-83

DESCRIPTION INTAKE STRUCTURE

PROJECTED RFO DATE _____

SYSTEM RFO PACKAGES 1) DC 2) DEA 3) DEB 4) DED 5) DEE
6) DEF 7) DEG 8) DEG-1 9) DEM 10) KAZ
(Partial)
11) KFZ 12) LFZ 13) QAZ 14) QDZ 15) PQZ
16) QGZ 17) QNZ 18) RPZ 19) _____ 20) _____

COGNIZANT ENGINEERS UENO R. Huber

UESU K. L. McLaughlin

TOTAL OF CAT. I ITEMS RE _____ SWR 1

RED _____ SFR 1

MAJOR RESTRAINTS TO RFO * SFR-DE-056A & TE-DE2-071: Electro switches at main control board did not provide reliable operation of intake pump breakers - a temporary alteration (installing reset button) has provided reliable reset capabilities. However UENO has decided that they want the replacement switches installed prior to RFO.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE KII-1 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 12-83

DESCRIPTION SERVICE GAS (N2)

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) KHA-1 2) KHF(N2) 3) _____ 4) _____ 5) _____

6) _____ 7) _____ 8) _____ 9) _____ 10) _____

11) _____ 12) _____ 13) _____ 14) _____ 15) _____

16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COGNIZANT ENGINEERS UFNO _____

UESU T. Carter

TOTAL OF CAT. I ITEMS RE 14 SWR 1

RED _____ SFR 1

MAJOR RESTRAINTS TO RFO SFR-KII-018B requires retest due to pres. change of spec. from 125 psig to 135 psig.

Tech. are re-calling gauges & UESU will retest. No fcst date yet on completion.

Delcon completing N2 purge of penetrations, fcst completion date 8-30-83.

SWR-KH-077 replacing grating on site service gas trenches - working.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE AK-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-14-83

DESCRIPTION CONDENSATE DEHIN. SYSTEM

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) AKA 2) AKB 3) AKC 4) 5)
6) 7) 8) 9) 10)
11) 12) 13) 14) 15)
16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO L. S. Sandbothe

UESH S. Corcoran

TOTAL OF CAT. I ITEMS RE 3 SWR 11

RFD 8 SFR 46

MAJOR RESTRAINTS TO RFO In service leak tests and the resulting repairs. Acceptance test/pre-op in process.

Instrument line hydros incomplete.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE KC-3 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE

DESCRIPTION FIRE PROTECTION MISCELLANEOUS OUT BLDGS.

PROJECTED RFO DATE 9-2-83

SYSTEM RFT PACKAGES 1) KCP 2) KCQ 3) KCR 4) KCS 5) KCU
6) KCV 7) KCW 8) KCX 9) KCY 10) KCZ
11) KC-7 12) 13) 14) 15)
16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO S. Chomos

UESU E. Oddo

TOTAL OF CAT. I ITEMS RE SWR

RED SFR

MAJOR RESTRAINTS TO RFO Will release KC-3 next week 9-14-83.

*For Lovelace -
on 10/10/1961*

RFO WEEKLY STATUS REPORT

* Attachment

- F. Arnold
- J. Nobbs
- * R. Tomchuk
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- * B. Sheppard
- * L. Thorton
- L. Keightley (Mail Code 470)
- J. Rost (Mail Code 7)

September 12, 1983

Page 1 of 7

FROM: R. H. Pererson Release for Operations Coordinator

SUBJ: Release for Operations, Package Identification

* = Indicates a change to that entry

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|-----------------------------------|------------|
| * New Package Preparation.....4 | 5 |
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| * Final Package Preparation.....0 | 1 |
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| * At OPS (Review/Walkdown).....2 | 1 |
| At SE (Cat 1/Signatures).....12 | 12 |
| At OPS (Acceptance).....2 | 2 |
| Turned Over.....37 | 37 |
| TOTAL 67 | 67 |

2. Package Identification:

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|--|-----------------------------|
| AD-1 | ADA ADB AP | At OPS (Review) 08-25-83 |
| AK-1 | AKA AKB AKC PGK | At SE (Review) 07-11-83 |
| AN-1 | ANA ANB KAY KSY LDY LFY QJY QNY | TURNED OVER 01-05-83 |

RFO Package Identification

Page 2 of 7

| | <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|---|--------------------|--|--|
| | AN-2 | AND ANE | At SE (Signatures) 06-02-83 |
| * | AQ-1 | AQA AQB | At SE (Review) 09-08-83 |
| | CA-1 | CA | TURNED OVER 07-19-83 |
| | CB-1 | CB CB-1 | At SE (Signatures) 08-01-83 |
| | CD-1 | CD | TURNED OVER 08-31-83 |
| | CF-1 | CF | TURNED OVER 08-16-83 |
| | CG-1 | CG | At SE (Review) 05-24-83 |
| | DA-1 | DAA (Partial) DAB | New Package Preparation 08-22-83 |
| * | DD-1 | DD QNV RPV | New Package Preparation 09-08-83 |
| | DE-1 | DEC DEI DEJ DEK DEL DEO DEQ DER KDY (Partial) KFU QJU QNU RPU RZU | TURNED OVER 07-07-83 |

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|--|
| DE-2 | DC DEA DEB DED DEE DEF DEG DEG-1 (Partial) DEM KAZ KFZ LFZ PQZ QAZ QDZ QGZ QNZ RPZ | At SE (Signatures) 08-04-83 |
| EB-1 | EB | TURNED OVER 04-06-83 |
| EC-1 | ECA (Partial) ECB ECC ECD-1 | At SE (Signatures) 07-26-83 |
| EC-2 | ECA (Partial) | TURNED OVER 11-10-82 |
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| FB-1 | FBB FBC-1 FBC-2 | New Package Preparation 08-22-83 |
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| GA-1 | GAA GAB | At OPS (Review) 09-08-83 |

RFO Package Identification

Page 4 of 7

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|---------------------------------|
| GF-1 | GFP GFS | TURNED OVER 01-05-83 |
| GF-2 | GFY | TURNED OVER 01-05-83 |
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| KA-1 | KAG | TURNED OVER 10-26-82 |
| KA-2 | KAJ | TURNED OVER 10-26-82 |
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| KC-2 | KCT-2 QNT | At SE (Signatures) 06-15-83 |
| KC-3 | KCP KCQ KCR KCS KCU KCV KCW KCX KCY KCX KC-7 | At Se (Signatures) 08-26-83 |

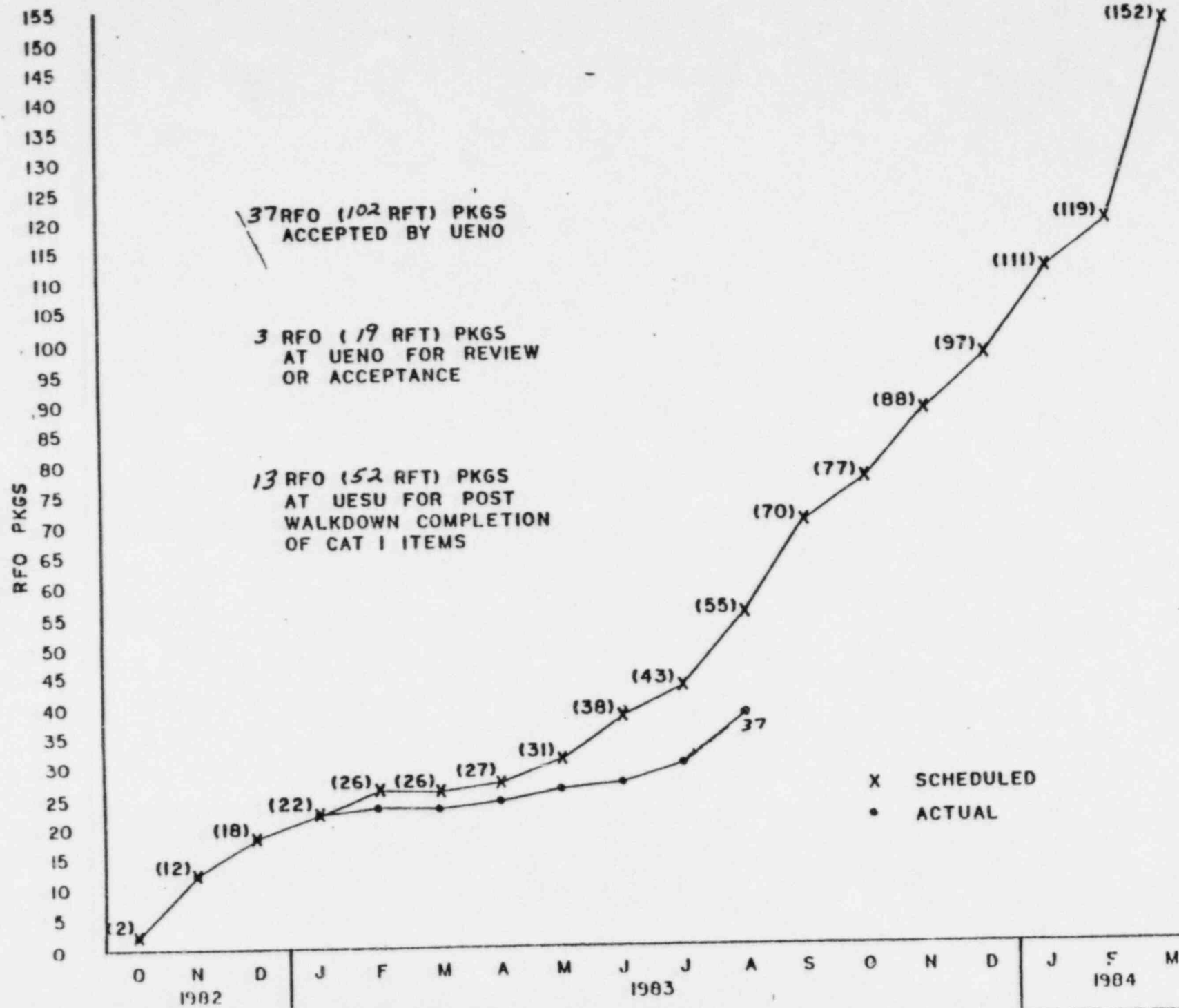
| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|--------------------------------|
| KD-1 | KDH | TURNED OVER 11-05-82 |
| KD-2 | KDB KDD KDE KDF KDY (Partial) | TURNED OVER 08-31-83 |
| KE-1 | KEA-1 | TURNED OVER 11-04-82 |
| KE-2 | KEA-3 KEA-5 | TURNED OVER 11-08-82 |
| KE-3 | KEA-4 | TURNED OVER 11-15-82 |
| KF-1 | KFX | TURNED OVER 08-08-83 |
| KH-1 | KHA-1 KHF (Partial) | At SE (Review) 05-27-83 |
| LE-1 | LEP | TURNED OVER 12-16-82 |
| LF-1 | LFC | TURNED OVER 11-15-82 |
| MR-1 | MR PAA-1 (Partial) PAA-2 (Partial) | TURNED OVER 12-21-82 |
| NB-1 | NBA NBB NBC | At SE (Acceptance) 09-08-83 |
| NG-1 | NGA NGB NGC NGD NGE NGG NGH | At SE (Signatures) 07-11-83 |
| NN-1 | NNA NNB | At SE (Signatures) 08-02-83 |

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|--------------------------------|
| PB-1 | PBA | At SE (Signatures) 02-23-83 |
| PB-2 | PBX | At SE (Signatures) 03-03-83 |
| PB-3 | PAB (Partial) PAZ (Partial) PBZ | TURNED OVER 06-17-83 |
| PG-1 | PGS PGT | TURNED OVER 11-23-82 |
| PG-2 | PGA PGB PGC PGD PGF (Partial) PGG PGH | TURNED OVER 12-21-82 |
| PG-3 | PAB (Partial) PAB-1 (Partial) PGQ PGU PGV PGW PGX PGY PGZ | TURNED OVER 07-19-83 |
| PG-4 | PGP | TURNED OVER 08-23-83 |
| PJ-1 | PJ | At SE (Review) 06-08-83 |
| PK-1 | PKA PKB | At SE (Signatures) 05-23-83 |
| PK-2 | PKZ | TURNED OVER 05-10-83 |
| PK-3 | PKC PKD PKP PKQ PKR PKS PKT PKU PKV PKX PKY | TURNED OVER 05-27-83 |

RFO Package Identification

Page 7 of 7

| <u>RFO Package</u> | <u>RFT Package</u> | <u>Comments</u> |
|--------------------|---|--|
| PN-1 | PN | At SE (Signatures) 02-14-83 |
| QA-1 | QAA-1 (Partial) QAA-2 (Partial) QAA-3 (Partial) | TURNED OVER 11-15-82 |
| QA-2 | QAS QAT QAU QAV QAX QAY | TURNED OVER 08-18-83 |
| QD-1 | QD-6 | TURNED OVER 11-15-82 |
| QD-2 | QDT QDU QDV QDX QDY | TURNED OVER 08-16-83 |
| QF-1 | QFA-6 | TURNED OVER 12-13-82 |
| RM-1 | RM | At SE (Review) 08-22-83 |
| RJ-1 | RJA RJB-1 RJB-2 | TURNED OVER BY LETTER 12-10-82 |
| RK-1 | RK | TURNED OVER BY LETTER 12-10-82 |
| RT-1 | RT-1 RT-2 | PREVIOUSLY ST. TURNED OVER BY LETTER 01-17-83 |
| SK-1 | SKAA-1 SKAA-2 SKAB SKAC SKBB SKE-1 SKF-1 SKCA-1 SKGB-1 SKGC-1 SKHA-1 SKHB-1 SKHE-1 SKHF SKHG-1 SKHH-1 | To SE (Acceptance) 08-16-83 |



DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE PN-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-4-83

DESCRIPTION INSTRUMENT AC POWER

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) PN 2) _____ 3) _____ 4) _____ 5) _____

6) _____ 7) _____ 8) _____ 9) _____ 10) _____

11) _____ 12) _____ 13) _____ 14) _____ 15) _____

16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COCHIZANT ENGINEERS UENO M. Haag

UESU D. Fonner

TOTAL OF CAT. I ITEMS RE 1 SWR 1

RED 1 SFR 2

MAJOR RESTRAINTS TO RFO S/U to complete retest of DCP-E-32 ref. Swr-PN-05.

Re-connect permanent power at transformers ref. SWR-PN-04.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE PB-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-14-83

DESCRIPTION MEDIUM VOLTAGE (4160)

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) PBA 2) 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO M. Haag

UESU D. Fonner

TOTAL OF CAT. I ITEMS RE 0 SWR 1

RED 4 SFR 9

MAJOR RESTRAINTS TO RFO FJ-200-502 is complete pending calibration re-test and vendor verification.

RE-074A requires final closure.

SWR's to be issued for DCP-E-65, seismic problem with mounting the new components has been tentatively resolved requiring only on-site activities.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE PB-2 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-28-83

DESCRIPTION 4.16KV Bus and Xfrm's PB121, PB122, PB123

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) PBX 2) _____ 3) _____ 4) _____ 5) _____

6) _____ 7) _____ 8) _____ 9) _____ 10) _____

11) _____ 12) _____ 13) _____ 14) _____ 15) _____

16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COGNIZANT ENGINEERS UENO M. Haag

UESU D. Fonner

TOTAL OF CAT. I ITEMS RE _____ SWR 1

RED _____ SFR 1

MAJOR RESTRAINTS TO RFO ECN1165 not complete at this time (partial).

Per Mark Haag the retest will be performed during a scheduled outage 9-15-83.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE AN-2 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 5-26-83

DESCRIPTION DEMIN WTR. SUPPLY/STORAGE/XFR

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) AND 2) ANE 3) _____ 4) _____ 5) _____

6) _____ 7) _____ 8) _____ 9) _____ 10) _____

11) _____ 12) _____ 13) _____ 14) _____ 15) _____

16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COGNIZANT ENGINEERS DENO J. Moose/R. Huber

UESU J. Knox

TOTAL OF CAT. I ITEMS RE _____ SWR 1

RED _____ SFR 1

MAJOR RESTRAINTS TO RFO SFR-AN-50A Vendor & Bechtel recommend seal weld the thread fitting connections
except instrumentation. SWR-AN-97 (Hot) fcst. completion of seal welds 8-30-83 -
retest required.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE AD-1

RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 5-25-83

DESCRIPTION CONDENSATE SYSTEM

PROJECTED RFO DATE 10-1-83

SYSTEM RFT PACKAGES 1) ADA 2) ADB 3) AP 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO S. Sandbothe

UESU S. Corcoran

TOTAL OF CAT. I ITEMS RE SWR

RED SFR

MAJOR RESTRAINTS TO RFO RE-ADA-122 insulating system (Approx. 10' to go). Hydro's to be completed after AK

accept. test, not walkdown yet. SWR-AP-016 working to term cable for DCP-CS-24.

DCP-E-43 (FE-009-009 R1 need parts FCSD WA) DCP-E-65

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE EC-1 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 6-20-83

DESCRIPTION SPENT FUEL POOL

PROJECTED RFO DATE 9-83

SYSTEM RFT PACKAGES 1) ECA 2) ECB 3) ECC 4) ECD-1 5) _____
6) _____ 7) _____ 8) _____ 9) _____ 10) _____
11) _____ 12) _____ 13) _____ 14) _____ 15) _____
16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COGNIZANT ENGINEERS UENO P. Bramstedt

UESU J. Ardu

TOTAL OF CAT. I ITEMS RE 3 SWR 4

RED 1 SFR

MAJOR RESTRAINTS TO RFO SE will sign items 9-9-83, N-5 will be only thing remaining open.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE FC-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 6-21-83

DESCRIPTION SGFP TURBINE SYSTEM

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) FCA 2) FCB 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO Jim Lueckenhoff

UESU Jim Lueckenhoff

TOTAL OF CAT. I ITEMS RE 6 SWR 4

RED 0 SFR 9

MAJOR RESTRAINTS TO RFO SWR's for DCP-E-47 issued.

Hydro-tests to be performed during HFT. (In-service leak test FCA-05 & FCB-03)

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE NG-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE

DESCRIPTION 480 VAC CLASS IE

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) NGA 2) NGB 3) NGC 4) NGD 5) NGE

6) NGF 7) NGG 8) NGH 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO J. Lueckenhoff

UESU S. Broderick

TOTAL OF CAT. 1 ITEMS RE 0 SWR 13

RED 6 SFR 6

MAJOR RESTRAINTS TO RFO Material for DCP-E-34 FE-009-007 shipped 8-19-83 and FE-017-004 scheduled for 8-31-83.

Fcwp RJ-200-B no forecast on materials.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE KC-2 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 8-5-83

DESCRIPTION VALVE PIT SUMP PUMP WELDING RECEP.

PROJECTED RFO DATE 9-13-83

SYSTEM RFT PACKAGES 1) KCT 2) QNT 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO S. Chomos

UESH E. Oddo

TOTAL OF CAT. 1 ITEMS RE SWR 1

RED SFR

MAJOR RESTRAINTS TO RFO SWR-KC-284 replacing & re-testing of PG105AB7 shunt trip device UE P.O. #87225 fcst.
8-23-83 wrong bkr. arrived, ordered new bkr w/shunt trip device PO. #87326 fcst (WA)
Delcon (THED136060WL).

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE NH-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 8-15-83

DESCRIPTION Instrument AC Power

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) NNA 2) NNB 3) _____ 4) _____ 5) _____
6) _____ 7) _____ 8) _____ 9) _____ 10) _____
11) _____ 12) _____ 13) _____ 14) _____ 15) _____
16) _____ 17) _____ 18) _____ 19) _____ 20) _____

COCHIZANT ENGINEERS UEDD J. Luckenhoff

UESH D. McCullough

TOTAL OF CAT. 1 ITEMS RE _____ SMR _____

RED _____ SFR _____

MAJOR RESTRAINTS TO RFO 2SH-8326-E Conduits entering W cabinets at points other than the conduit entry plate.

W to resolve, possible re-test for seismic analysis report

Forecast by W for 9-15-83.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE CB-1 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 8-15-83

DESCRIPTION MAIN TURBINE LUBE OIL

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) CB 2) CB-1 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UFM S. Sandbothe

UF50 J. Gloe

TOTAL OF CAT. 1 ITEMS RE SWR

RFD SFR

MAJOR RESTRAINTS TO RFO SWR written to de-term cables in TVCB01 to allow cable for DCP-CS-67 to be pulled in.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE DE-2 RFO EXPEDITOR N. Keating

SCHEDULED RFO DATE 8-30-83

DESCRIPTION INTAKE STRUCTURE

PROJECTED RFO DATE _____

SYSTEM RFT PACKAGES 1) DC 2) DEA 3) DEB 4) DED 5) DEE
6) DEF 7) DEG 8) DEG-1 9) DEM 10) KAZ
(Partial)
11) KFZ 12) LFZ 13) QAZ 14) QDZ 15) PQZ
16) QGZ 17) QNZ 18) RPZ 19) _____ 20) _____

COGNIZANT ENGINEERS UENO R. Huber

UESU K. L. McLaughlin

TOTAL OF CAT. I ITEMS RE _____ SWR 1

RFD _____ SFR 1

MAJOR RESTRAINTS TO RFO * SFR-DE-056A & TE-DE2-071: Electro switches at main control board did not provide reliable operation of intake pump breakers - a temporary alteration (installing reset button) has provided reliable reset capabilities. However UENO has decided that they want the replacement switches installed prior to RFO.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE KH-1 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE 12-83

DESCRIPTION SERVICE GAS (N2)

PROJECTED RFO DATE

SYSTEM RFT PACKAGES 1) KHA-1 2) KHF(N2) 3) 4) 5)

6) 7) 8) 9) 10)

11) 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO

UESU T. Carter

TOTAL OF CAT. I ITEMS RE 14 SWR 1

RED SFR 1

MAJOR RESTRAINTS TO RFO SFR-KH-018B requires retest due to pres. change of spec. from 125 psig to 135 psig.

Tech. are re-calling gauges & UESU will retest. No fcst date yet on completion.

Delcon completing N2 purge of penetrations, fcst completion date 8-30-83.

SWR-KH-077 replacing grating on site service gas trenches - working.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE AK-1 RFO EXPEDITOR R. Atkinson

SCHEDULED RFO DATE 2-14-83

DESCRIPTION CONDENSATE DEHIN. SYSTEM

PROJECTED RFO DATE

SYSTEM RFO PACKAGES 1) AKA 2) AKB 3) AKC 4) 5)
6) 7) 8) 9) 10)
11) 12) 13) 14) 15)
16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO L. S. Sandbothe

UESU S. Corcoran

TOTAL OF CAT. I ITEMS RE 3 SWR 11
RED 8 SFR 46

MAJOR RESTRAINTS TO RFO In service leak tests and the resulting repairs. Acceptance test/pre-op in process.

Instrument line hydros incomplete.

DATE 9-9-83

SYSTEM RFO SUMMARY

SYSTEM RFO PACKAGE KC-3 RFO EXPEDITOR R. Jansson

SCHEDULED RFO DATE

DESCRIPTION FIRE PROTECTION MISCELLANEOUS OUT BLDGS.

PROJECTED RFO DATE 9-2-83

SYSTEM RFT PACKAGES 1) KCP 2) KCQ 3) KCR 4) KCS 5) KCU

6) KCV 7) KCW 8) KCX 9) KCY 10) KCZ

11) KC-7 12) 13) 14) 15)

16) 17) 18) 19) 20)

COGNIZANT ENGINEERS UENO S. Chomos

UESU E. Oddo

TOTAL OF CAT. I ITEMS RE SWR

RED SFR

MAJOR RESTRAINTS TO RFO Will release KC-3 next week 9-14-83.

Case Load Forecast Panel Visit

Sept 12, 1983

D. Shaper
 W.A. DEERICK
 F.D. FIELD
 L.L. Powers
 L.F. FORTENCO
 Walter H. Weber
 DONALD CAPONE
 B.H. Little
 John Neisler
 W.H. LEVINE
 L. Olshan
 S.E. MILTFINGER
 P.A. HARRIS
 R.K. COTHREN
 J.F. McLaughlin
 AC Passwater
 J.A. ELLIOTT
 R.J. Schukai
 M.E. STINNETT
 J.W. Finkbe
 Jim Wessman
 K.A. McAlister
 Michael B. Cleary
 C.C. Wagoner
 W.S. Cairns
 R.N. Wise
 Jerry Ann Turner
 D.F. Schnell
 Bill Reilly
 T.H. McFarland
 K.W. Kuechenmeister
 Kay Drey
 B.H. Little
 J.E. Konklew

UENE Licensing
 SNUPPS -
 UEGA
 UEGA
 BECHTEL ENGRNG.
 UENC
 UENE
 NRC
 NRC Resident Inspector
 NRC/DL
 UENO
 UESA
 UESU
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 U.E.
 DCC
 Columbia
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 Columbia
 U.E. - Vice Pres - Nuclear
 SNUPPS
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DANIEL CONSTRUCTION COMPANY

OCT 13 1982

Nuclear Construction

PROJECT: [illegible]
P.O. BOX 149
ST. LOUIS, MO 63166
October 13, 1982
DLR-8928
No Response Required

Union Electric Company
P.O. Box 149
St. Louis, Mo 63166

ATTENTION: W. H. Weber, Manager
Nuclear Construction

SUBJECT: Start Up's October Issue of Release-for-Test Dates

Dear Walt;

Per your request, we have reviewed the October update of Start-Up's Release-for-Test (RFT) dates and find them acceptable.

Our scheduling group has participated during the past month with Start-Up Scheduling in the evaluation and analysis of subsystem Release-for-Test priorities, with primary focus having been on the balance of systems for Hot Functional Test and Full Load. During this interface, there were several iterations of dates, with compromise coming from both sides. The resulting dates, therefore, are an acceptable listing in terms of priority and realism of duration to system release.

Construction is committed to supporting this schedule and is optimistic of success in meeting these RFT dates (within plus or minus several days for any particular subsystem) given the full measure of support from all other involved parties.

It must be recognized, however, that hard constraints, having been expedited to the maximum extent reasonable, will have to be given full consideration for post release completion where impact to the test program is not prohibitive. This will be imperative for continuous support of the subject RFT dates.

Should you have any questions, please advise.

Sincerely,

C. C. Hagen
C. C. Hagen
Project Manager

CCW/JCS/db

RECEIVED

OCT 13 1982

D. F. SCHNELL

RECEIVED

OCT 13 1982

DANIEL CONSTRUCTION COMPANY
PROJECT 1106

| SUB | SYS | TEST PROC | TEST DATE |
|---------------|-----|---|-----------|
| *** | *** | TITLE | ST DATE |
| CS-03A801 | AB | STEAM DUMP SYSTEM (PT) | 04/04/83 |
| CS-03A802 | AB | MAIN STEAM SAFETY VALVE (PT) | 09/12/83 |
| CS-03A803 | AB | MAIN STEAM ISOLATION VALVE (PT) | 04/01/83 |
| CS-03A804 | AB | MAIN STEAM (PT) | 09/12/83 |
| CS-03A805 | AB | SECOND SYSTEM HYDRO (AT) | 11/15/82 |
| CS-04AC01 | AC | INITIAL TURBINE ROLL (AT) | 09/12/83 |
| CS-04AC02 | AC | TURBINE TRIP TEST (PT) | 07/05/83 |
| CS-04AC03 | AC | TURBINE SYSTEM COLD (PT) | 07/18/83 |
| CS-04AD01 | AD | -CONDENSATE SYSTEM (PT) | 01/11/83 |
| CS-03AE01 | AE | MAIN FEEDWATER SYSTEM (PT) | 07/11/83 |
| CS-03AE02 | AE | STEAM GENERATOR LEVEL CONTROL (PT) | 07/05/83 |
| CS-04AF01 | AF | SECONDARY VENT / DRAIN SYSTEM (PT) | 05/23/83 |
| CS-04AK01 | AF | -COND DEMIN SYSTEM (AT) | 02/07/83 |
| CS-03AL01 | AL | AUX FEEDWTR MTR DRIVEN PMP AND VALVE (PT) | 07/05/83 |
| CS-03AL02 | AL | AUX FEEDWTR TURB-DRIVEN PUMP & VLV (PT) | 07/05/83 |
| CS-03AL03 | AL | AUX FEEDWTR PUMP ENDURANCE (PT) | 07/05/83 |
| CS-03AL04 | AL | AUX FEED WTR HAMMER (PT) | 09/12/83 |
| C-04AN01 | AN | DEMIN WATER SYSTEM (AT) | 12/12/82 |
| CSP04AN1-04 | AN | DEMIN WETWELL/SAND FLTS/CLRWELL/CHLD (AT) | 12/06/82 |
| CSP04AN1-05-H | AN | DEMINERALIZER NEUTRALIZATION SYSTEM (AT) | 12/06/82 |
| CSP04AN1-06 | AN | DEMIN REGENERATION & TRAINS (AT) | 12/13/82 |
| CSP04AN1-07 | AN | DEMIN SVC & BACK PMP+ CARB FILTER (AT) | 12/05/82 |
| CS-04AQ01 | AQ | -CONDENSATE / FEEDWATER CHEM FEED (PT) | 01/28/83 |
| CS-03BB01 | BB | ACP INITIAL OPS (PT) | 04/04/83 |
| CS-03BB02 | BB | PRESSURE RELIEF TANK (PT) | 04/04/83 |
| CS-03BB03 | BB | RTD BYPASS FLOW MEASUREMENT (PT) | 09/12/83 |
| CS-03BB04 | BB | PRESSURE CONTROL (PT) | 09/12/83 |
| CS-03BB05 | BB | 40T FUNCTIONAL TEST (PT) | 09/12/83 |
| CS-03BB06 | BB | THERMAL EXPANSION (PT) | 09/12/83 |
| CS-03BB07 | BB | PRESSURE LEVER CONTROL (PT) | 09/12/83 |
| CS-03BB08 | BB | PRESSURE HEATER SPRAY (PT) | 09/12/83 |
| CS-03BB10 | BB | REACTOR COOLANT SYS FLOW MEASUREMENT (PT) | 09/12/83 |
| CS-03BB11 | BB | REACTOR COOLANT SYS FLOW COAST DOWN (PT) | 09/12/83 |
| CS-03BB12 | BB | PRIMARY HYDRO (PT) | 04/23/83 |
| CS-03BB13 | BB | PRESS CONTROL SPRAY FLOW VERIF (PT) | 09/12/83 |
| CS-03BB14 | BB | PRESS RELIEF VLV & PRT HOT (PT) | 09/12/83 |
| CS-03BB15 | BB | RCS DYNAMIC TEST (AT) | 09/12/83 |
| CS-03BB16 | BB | LEAK DETECTION SYSTEM (PT) | 09/12/83 |
| CS-03BB17 | BB | RTD/CROSS CALIBRATION (PT) | 09/12/83 |
| CS-03BB18 | BB | POWER CONW & ECCS THERMAL EXPANSION (PT) | 09/12/83 |
| CS-03BB19 | BB | POWER CONW & ECCS DYNAMIC WIR TEST (PT) | 09/12/83 |
| CS-03BB20 | BB | 40T STAND-BY TO COLD SHUTDOWN (PT) | 09/12/83 |
| CS-03BB21 | BB | PLANT PERFORMANCE TEST (NSR) (PT) | 01/03/83 |
| CS-03BB22 | BB | CHEM & WOL CONTROL SYS MAJOR COMPT (PT) | 01/03/83 |
| CS-03BB23 | BB | SCALE INJECTION (PT) | 01/03/83 |
| CS-03BB24 | BB | -CHARGING SYSTEM (PT) | 01/03/83 |
| CS-03BB25 | BB | LETDOWN SYSTEM (PT) | 08/29/83 |

TRANSFORMATIONAL AND ACCEPTANCE TEST USING AN SYSTEM

| SUB | SYS | TEST | DATE |
|-----|-----|------|------|
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| 98 | 98 | 98 | 98 |
| 99 | 99 | 99 | 99 |
| 100 | 100 | 100 | 100 |

PREOPERATIONAL AND ACCEPTANCE TEST SORTED BY SYSTEM

| SUB | TEST PROC | TEST DATE |
|--------------|--|-----------|
| 23-10 | TITLE | ST DATE |
| CS-03EM02 | SAFETY INJECTION FLOW VERIFICATION (PT) | 01/24/83 |
| CS-03EM03 | ACCUM SAFETY INJECTION CHECK VLV (PT) | 09/12/83 |
| CS-03EM04 | BORON INJECTION TANK & RECIRC PMP (PT) | 12/20/82 |
| CS-03EN01 | CONTAINMENT SPRAY SYS NOZZLE AIR (PT) | 12/05/83 |
| CS-03EN02 | CONTAINMENT SPRAY SYSTEM (PT) | 08/09/83 |
| CS-03EP01--H | ACCUMULATOR (PT) | 12/27/82 |
| CS-04FB01 | AUX STEAM BOILER (AT) | 05/09/83 |
| CS-04FB02 | AUX STEAM SYSTEM (AT) | 05/16/83 |
| CS-04FC01 | AUX TURBINE (AT) | 05/14/83 |
| CS-04FED1 | AUX STEAM CHEM ADDITION SYSTEM (AT) | 05/12/83 |
| CS-04GAD1 | PLANT HEATING SYSTEM (AT) | 02/14/83 |
| CS-04GAD1 | CHILLED WATER SYSTEM (AT) | 05/23/83 |
| CS-03G001 | SS SVC WTR PMPHOUSE HVAC (PT) | 05/09/83 |
| CS-04GL01 | TURBINE BLOB HVAC (AT) | 01/09/84 |
| CS-03GF01 | MISCELLANEOUS BLOB HVAC (PT) | 01/16/84 |
| CS-03GG01 | FUEL BLOB HVAC SYSTEM (PT) | 11/07/83 |
| CS-03GG05 | HEPA FILTER TEST (PT) | 12/05/83 |
| CS-04GH01 | RAD BLOB HVAC SYSTEM (PT) | 12/12/83 |
| CS-03GM01 | CONTROL BLOB HVAC SYSTEM (PT) | 11/14/83 |
| CS-03GL01 | AUX BLOB HVAC SYSTEM (PT) | 11/01/83 |
| CS-03GM01 | DIESEL GENERATOR BLOB HVAC (PT) | 12/05/83 |
| CS-03GN01 | CONTAINMENT COOLING SYSTEM (PT) | 07/25/83 |
| CS-03GN02 | FROM COOLING (PT) | 08/15/83 |
| CS-030001 | ILRT (PT) | 11/18/83 |
| CS-030002 | LLRT (PT) | 05/15/83 |
| CS-030203 | STRUCTURAL INTEGRITY AC (PT) | 11/11/83 |
| CS-03GS01 | POST-ACCIDENT HYDROGEN REMOVAL (PT) | 12/08/83 |
| CS-03GT01 | CONTAINMENT PURGE SYSTEM HVAC (PT) | 12/12/83 |
| CS-03HA01 | GASEOUS WASTE (RADIOACTIVE) SYSTEM (PT) | 11/07/83 |
| CS-04HB01 | LIQUID RAD SYSTEM (PT) | 12/01/83 |
| CS-04HB02 | WASTE EVAPORATOR (PT) | 12/05/83 |
| CS-04HC01 | SOLID WASTE SYSTEM (PT) | 01/16/84 |
| CS-04HC02 | SOLID WASTE FILTER HANDLING (PT) | 01/30/84 |
| CS-04HC03 | RESIN TRANSFER (PT) | 01/09/84 |
| CS-04HD01 | DECONTAMINATION SYSTEM (AT) | 01/23/84 |
| CS-04HE01 | BORON RECYC-E SYSTEM (AT) | 11/01/83 |
| CS-04HE02 | BORON RECYCLE EVAPORATOR (AT) | 11/07/83 |
| CS-04HF01 | SECONDARY LIQUID WASTE (AT) | 11/09/83 |
| CS-04HF02 | SECONDARY LIQUID WASTE EVAPORATOR (AT) | 11/14/83 |
| CSP04JA1--01 | AUX OIL UNLOADING & TRANSFER SYSTEM (AT) | 11/05/82 |
| CS-03JE01 | EMERGENCY FUEL OIL SYSTEM (PT) | 03/07/83 |
| CS-04KA01 | SERVICE AIR SYSTEM (AT) | 01/10/83 |
| CS-04KA02 | INSTRUMENT AIR SYSTEM (AT) | 01/10/83 |
| CSP04NA1--03 | DEMINEALIZER COMPRESSED AIR SYSTEM (AT) | 12/06/82 |
| C-04KS01 | CHEM STORAGE & COND / FEEDWTR (AT) | 05/09/83 |
| CS-04KC01 | FIRE PROTECTION WATER (PT) | 04/18/83 |
| CS-04KC02 | FIRE PROTECTION HALON (PT) | 03/21/83 |

FILE: TEST PROCEDURE INDEX

SORT: 23006

20-10

PREOPERATIONAL AND ACCEPTANCE TEST SORTED BY SYSTEM

| SUB SYS | 20-10 | TEST PROC TITLE | TEST ST DATE |
|------------|-------------|---|-----------------|
| *** | ***** | ***** | ***** |
| KC | CS-04KC03 | FIRE PROTECTION DETECTION / ALARM (PT) | 05/30/83 |
| KC | CSP04KC1-08 | FIRE PROTECTION SYS SUMP PUMP (AT) | 05/16/83 |
| KC | CSP04KC1-09 | FIRE PROTECTION SYS FOR FUEL RECP'T (PT) | 10/12/82 |
| KC | CSP04KC1-10 | FIRE DETECTION & ALARM SYS OUTSIDE PS(AT) | 05/13/83 |
| KC | CSP04UB1-02 | SERVICE BLDG FIRE PROTECTION SYS (AT) | 06/27/83 |
| KC | CSP04UB1-04 | SERV BLDG WHOLE BODY COUNT'G ROOM (AT) | 06/27/83 |
| KC | CSP04UB2-02 | STORES BLDG FIRE PROTECTION (AT) | 05/27/83 |
| KC | CSP04UB3-01 | SECURITY BLDG FIRE PROTECTION (AT) | 06/27/83 |
| KD | C-04KD01 | POTABLE WATER SYSTEM (AT) | 08/01/83 |
| KD | CSP04KD1-01 | POTABLE WTR CHLORINATION SYS (AT) | 08/01/83 |
| KE | CS-03KE01 | SPENT FUEL POOL CRANE (PT) | 10/01/82 |
| KE | CS-03KE02 | NEW FUEL ELEVATOR (PT) | 10/01/82 |
| KE | CS-03KE03 | FUEL HANDLING & STORAGE (PT) | 10/01/82 |
| KE | CS-03KE04 | FUEL TRANSFER SYSTEM (PT) | 12/01/83 |
| KE | CS-03KE05 | MANIPULATOR CRANE & RCC CHANGE (PT) | 12/01/83 |
| KE | CS-03KE06 | MANIPULATOR CRANE INDEXING (PT) | 01/16/84 |
| KE | CS-03KE07 | CONTAINMENT BLDG POLAR CRANE (PT) | 02/06/84 |
| KF | CS-04KF01 | BRIDGE CRANES (AT) | 02/20/84 |
| KF | CS-04KF02 | JIB CRANE HOIST (AT) | 02/20/84 |
| KH | CS-030009 | COMP GAS ACCUMULATOR TESTING (PT) | 08/08/83 |
| KH | CS-04KH01 | 42 SUPPLY (AT) | 08/15/83 |
| KH | CS-04KH02 | 42 SUPPLY (AT) | 01/31/83 |
| KH | CS-04KH03 | O2 SERVICE GAS SYSTEM (AT) | 11/01/83 |
| KH | CS-04KH04 | CO2 SERVICE GAS SYSTEM (AT) | 03/14/83 |
| KJ | CS-03KJ01 | DIESEL GENERATOR MECHANICAL (PT) | 03/28/83 |
| LA | CS-04LA01 | SANITARY DRAINAGE SYSTEM (AT) | 02/06/84 |
| LA | CSP04UB3-03 | SEC BLDG SUB-SOIL SEWAGE SUMP PMP (AT) | 02/13/84 |
| LD | CS-04LD01 | CHEMICAL DETERGENT WASTE (AT) | 01/09/84 |
| LD | CS-04LD02 | CHEMICAL EQUIPMENT DRAIN (AT) | 01/16/84 |
| LE | CS-04LE01 | OILY WASTE SYSTEM (PT) | 01/04/83 |
| LE | CSP04LE1-01 | OILY WASTEWTR FD PMP, TRANS, SMP, SEP(AT) | 10/01/82 |
| LE | CSP04LE1-03 | OILY WASTEWTR FIRE PMP/HSE SUMP PMP (AT) | 10/01/82 |
| LF | CS-04LF01-1 | FLOOR & EQUIPMENT DRAIN SYSTEM (PT) | 10/01/82 |
| LF | CS-04LF01-2 | FLOOR & EQUIPMENT DRAIN SYS (NON FB) (PT) | 02/15/84 |
| LF | CSP04AN1-02 | DEMINERALIZER SUMP PUMPS (AT) | 12/13/82 |
| LF | CSP04DA2-03 | CIRC & SERV WATER SUMP PUMPS (AT) | 02/15/84 |
| MA | CS-04MA01 | STATIC GENERATOR (AT) | 05/23/83 |
| MB | CS-04MB01 | EXCITATION VOLTAGE REGULATION (AT) | 07/18/83 |
| NR | CS-03NB01 | 4160 VOLT CLASS IE (PT) | 02/28/83 |
| NB | CS-090023 | ELECTRICAL DIST SYS VOLTAGE VERIF (PT) | 09/12/83 |
| NE | CS-03NE01 | DIESEL GENERATOR ELECTRICAL (PT) | 03/14/83 |
| NF | CS-03NF01 | INTEGRATED CONTROL LOGIC (PT) | 02/21/83 |
| NF | CS-03NF02 | SI / BLACKOUT SEQU W/O SITE POWER (PT) | 12/20/83 |
| NF | CS-03NF03 | STATION BLACKOUT TEST (PT) | 09/01/83 |
| NG | CS-U3NG01 | ESW HSE 480V CLASS IE SYS(PT) | 12/06/82 |
| NG | CS-03NG01 | 480 VOLT CLASS IE SYSTEM (PT) | 12/13/82 |
| NK | CS-03NK01 | 125 VOLT CLASS IE DC (PT) | 05/02/83 |

FILE: TEST PROCEDURE INDEX

SORT: 20006

20-10

PREOPERATIONAL AND ACCEPTENCE TEST SORTED BY SYSTEM

| SUB SYS | 20-10 | TEST PROC TITLE | TEST ST DATE |
|------------|--------------|---|-----------------|
| *** | ***** | ***** | ***** |
| NN | CS-03NN01 | INSTRUMENT AC SYSTEM CLASS IE (PT) | 01/10/83 |
| PA | CS-04PA01 | 13.8 KV SYSTEM (PT) | 10/01/82 |
| PB | CS-04PB01 | NON-CLASS IE SYSTEM 4160 VOLT (PT) | 11/08/82 |
| PB | CSP04DA2-05 | CIRC & SERV WTR PMPHSE 4160 VOLT SYS (PT) | 02/21/83 |
| PB | CSP04DE2-10 | INTAKE STRUCTURE 4160 VOLT SYSTEM (AT) | 10/11/82 |
| PG | CS-04PG01 | 480 VOLT NON-CLASS IE (PT) | 10/25/82 |
| PG | CSP04AN1-01 | DEMINEALIZER 480V SYSTEM (AT) | 10/25/82 |
| PG | CSP04DA2-06 | CIRC & SERV WTR PMPHSE 480 VOLT SYS (PT) | 12/05/82 |
| PG | CSP04DE2-11 | INTAKE STRUCTURE 480 VOLT SYSTEM (AT) | 10/25/82 |
| PG | CSP04DE3-05 | JTR TREATMT PLT 480 VOLT SYSTEM (AT) | 10/18/82 |
| PG | CSP04KC1-03 | FP 480 VOLT OILY WASTE & AUX OIL (PT) | 10/01/82 |
| PG | CSP04UB1-03 | SERV / STORES BLDG 480 VOLT SYS (AT) | 04/08/83 |
| PG | CSP04UB3-02 | SECURITY BLDG DIESEL GEN 480 VOLT (AT) | 05/16/83 |
| PG | CSP04UB3-06 | SITE LIGHTING & STORES BLDG 480 V (AT) | 02/13/84 |
| PJ | CS-04PJ01 | 250 VDC SYSTEM (PT) | 01/17/83 |
| PK | CS-04PK01 | 125 VDC SYSTEM (NON-CLASS) (PT) | 02/07/83 |
| PK | CSP04DE2-12 | INTAKE STRUCTURE 125 VDC SYSTEM (AT) | 03/14/83 |
| PN | CS-04PN01 | INSTRUMENT AC (NON-CLASS IE) (PT) | 11/15/82 |
| PQ | C-04PQ01 | UNINTERRUPTABLE AC SYSTEM (AT) | 01/17/83 |
| PQ | CS-04PQ02/03 | UNINTERRUPTABLE AC (AT) | 01/17/83 |
| QA | CS-04QA01 | LIGHTING SYSTEM (AT) | 02/13/84 |
| QA | CSP04DA3-02 | COOL'G TOWER AIRCRAFT WRN'G LIGHT (AT) | 10/01/82 |
| QD | CS-04QD01 | EMERGENCY LIGHTING SYSTEM (PT) | 03/14/83 |
| QD | CS-04QD01-6 | EMERGENCY LIGHTING SYS FUEL BLDG (PT) | 10/10/82 |
| QF | C-04Q001 | RADIO INTERFERENCE-BLSE9719 (AT) | 09/12/83 |
| QF | CS-04QF01 | PUBLIC ADDRESS SYSTEM (PT) | 09/12/83 |
| QF | CSP04QF1-01 | SITE PUBLIC ADDRESS SYSTEM (AT) | 09/05/83 |
| QG | CSP04QG1-01 | SITE GROUNDING SYSTEM (AT) | 09/05/83 |
| QG | CSP04QG1-02 | INTAKE GROUNDING (AT) | 03/13/83 |
| QJ | CS-03QJ01 | HEAT TRACE FREEZE PROTECTION (PT) | 01/09/84 |
| QJ | CS-03QJ02 | BORIC ACID HEAT TRACING SYSTEM (PT) | 12/05/83 |
| RD | CS-U1RD01 | SITE METEOROLOGICAL MONITOR (AT) | 02/06/84 |
| RJ | CS-04RJ01 | 30P COMPUTER (AT) | 01/05/83 |
| RK | CS-04RK01 | ANNUNCIATOR (AT) | 11/07/82 |
| RM | CS-04RM01 | SECONDARY SAMPLE SYSTEM (PT) | 09/12/83 |
| SA | CS-03SA01 | ENGINEERING SAFEGUARD NSSS (PT) | 12/20/83 |
| SA | CS-03SA02 | ENGINEERING SAFEGUARD (BOP) (PT) | 12/20/83 |
| SH | CS-03SB01 | REACTOR PROTECTION LOGIC (PT) | 11/01/83 |
| SD | CS-04SD01 | AREA RADIATION MONITORING (PT) | 01/09/84 |
| SE | CS-03SE01-W | SOURCE, INTERMED & POWER RANG (PT) | 01/09/84 |
| SF | CS-04SF01-W | C/O ROD CONTROLS (AT)-W | 07/15/83 |
| SF | CS-04SF03-W | ROD CONTROLS MG SET (AT)-W | 05/06/83 |
| SF | CS-04SF04-W | CRD COIL OHM CK (AT)-W | 07/05/83 |
| SG | CS-04SG01 | SEISMIC MONITORING INSTRUMENT SYS (PT) | 01/25/84 |
| SJ | CS-04SJ01 | PRIMARY SAMPLING SYSTEM (PT) | 09/12/83 |
| SK | CS-04SK01 | PLANT SECURITY SYSTEM (AT) | 11/21/83 |
| SN | CS-09SQ01 | LOOSE PARTS MONITORING SYS (PT) | 09/12/83 |

UNION ELECTRIC COMPANY
WILLAWAY NUCLEAR STATION

MINI CHAMPS

DATE 10/18/82
TIME 08:07

PAGE 0006
REPT U-05

FILE: TEST PROCEDURE INDEX

SORT: 20006

20-ID

PREOPERATIONAL AND ACCEPTENCE TEST SORTED BY SYSTEM

SUB
SYS

SP
SR

20-ID

CS-03SP01
CS-04SR01-W

TEST PROC
TITLE

PROCESS RAD MONITOR SYS (PT)
INCORE INSTRUMENT SYSTEM (AT-W)

TEST
ST DATE

12/05/83
01/30/84

NUMBER OF SELECTIONS - 237

| | | | | | | | | | | | | | | | |
|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|
| 8-13 | 8-20 | 8-27 | 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 | 11-19 | 11-26 |
|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|

INST. VALVES

PO. J60182
FCST 1, 2, 3, 4

COMP PSI FOR PIPE

TOT WELD 138 V.A. 122 PT 122 UT 11

COMP WRP

REACTOR 4

COMP. WORK. W.A. 7.5 HANGERS

AB01 R005, R007 25N-6595 MM FCST 9-24

" R008 CONSTR

'AB01 R006 PO. 218A B.P. CLAMP FCST 9-24

AB01 R400 RES NDE

AB01 H004, H010, H011, H012 NEED WELD PROC
BELL FCST 9-15

CONSTRUCTION
READY FOR 2ND HYDRO

COMP SMWD REACTOR

COMP PSI FOR PIPE

TOT WELD 12 V.A. 3 UT 6

COMP WRP REACTOR 3

PIPE COMP W.A. FOR WHIP RESTR.

CHECK NOTE 1

HANGER COMP W.A.

NOTE 1

BM-B : COMP

BM 34 : WORKING (FCST 9-15)

BM 49 : COMP

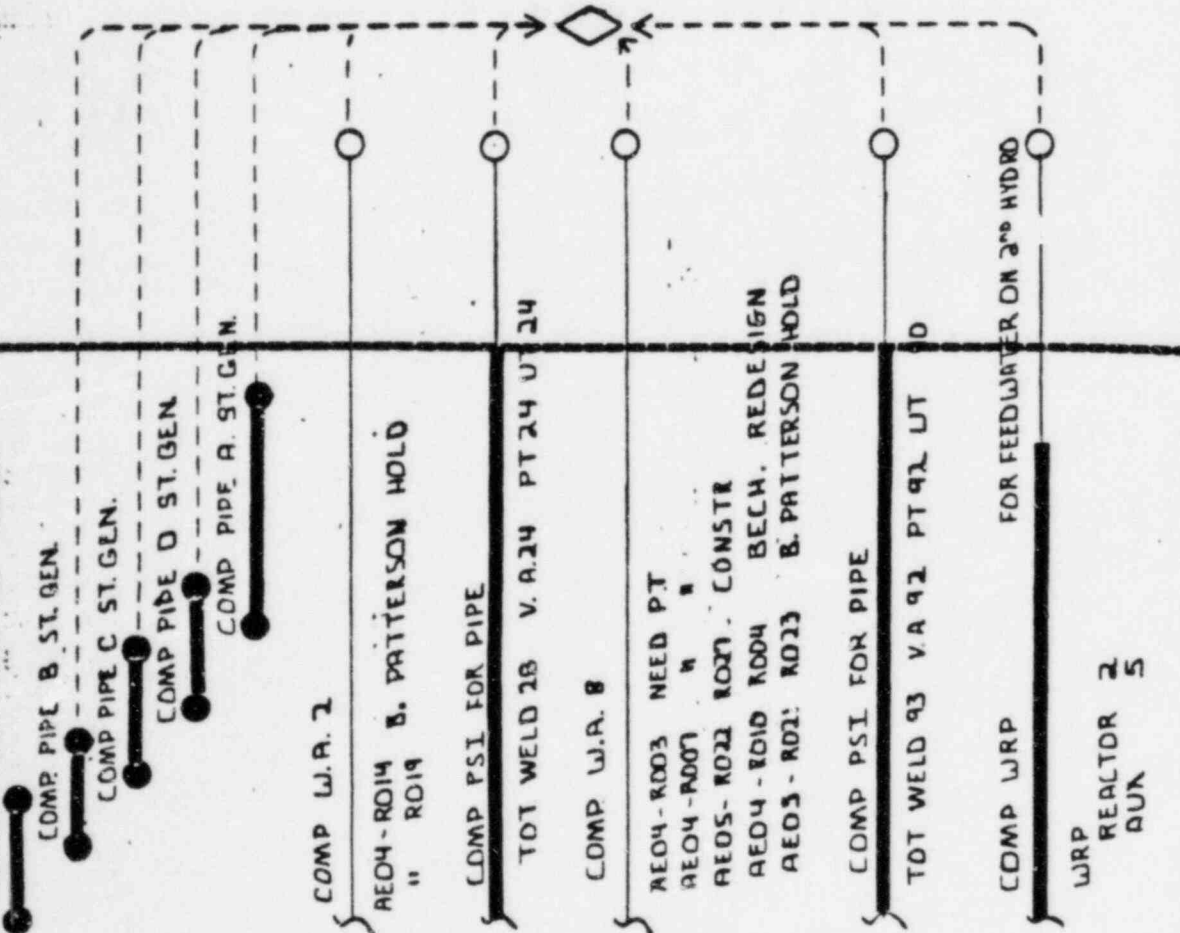
BM 53 : PIPE INTF. BG23 SCH2

BM 55 : WORKING (FCST 9-5)

| | | | |
|-----------------------------|-------|------------------------|-------|
| DANIEL CONSTRUCTION COMPANY | | CRITICAL PATH SCHEDULE | |
| 2ND HYDRO SCH. | | Sheet of | |
| 8-13 | 8-20 | 8-27 | 9-3 |
| 9-10 | 9-17 | 9-24 | 10-1 |
| 10-8 | 10-15 | 10-22 | 10-29 |
| 11-5 | 11-12 | 11-19 | 11-26 |

| | | | | | | | | | | | | | | | |
|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|
| 8-13 | 8-20 | 8-27 | 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 | 11-19 | 11-26 |
|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|

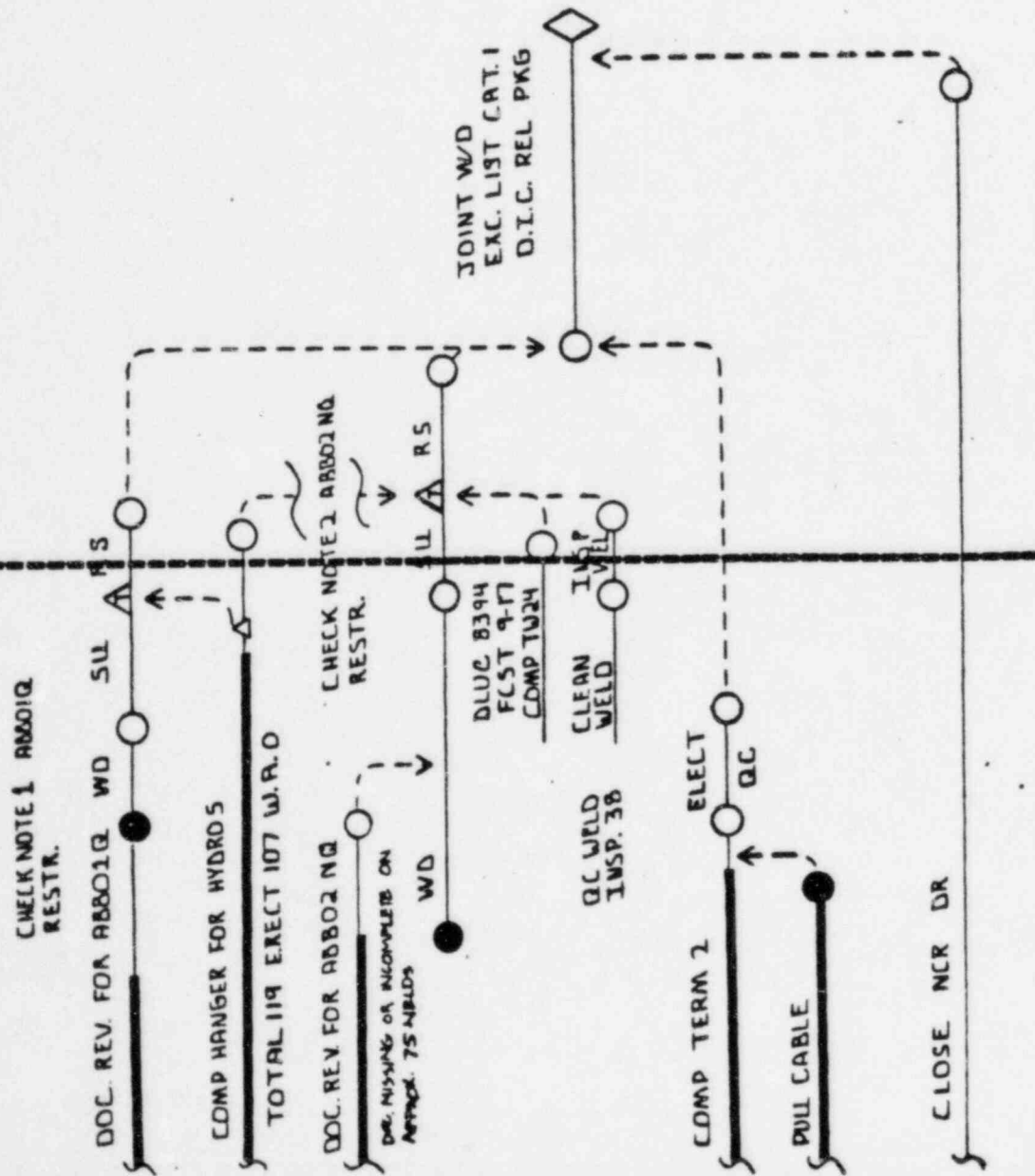
TAKEOUT TEMP. FOR AE FLUSH



CONSTRUCTION
READY FOR 2ND HYDRO

MEB 2

APR 2 PM 20 HYDR



SLH. RFT 4-30-82

PRO. RFT 10-15-82

NOTE 1 ABBOIQ

1. PSI M03 ABO1
FD29 FD28 F081
2. LRP 5342 ABO1 F029
3. 15N GASP F057 9-17
(WILEY RESTRANIN BOTH HYDROS)

NOTE 2. ABB02 N.Q.

1. TW24 FCST 9-17
2. NEED MAX PRESS. RATING
ON TURBINE STOP VALVES
FCST W. A. G.E. (44W 21A)
3. TURBINE PIPE
AC07 F004 NEED RT
AB04 SP02 - REPLACE PC
AB05 SP010 " " " " " "
AB03 SP003 " " " " " "

AB11 SPO04 FW31 A, 32 A, 33 A
FW34 A, 006 A

 TD CORRECT. DIM. PER DES. |[illegible]

NCR & DR

ABB

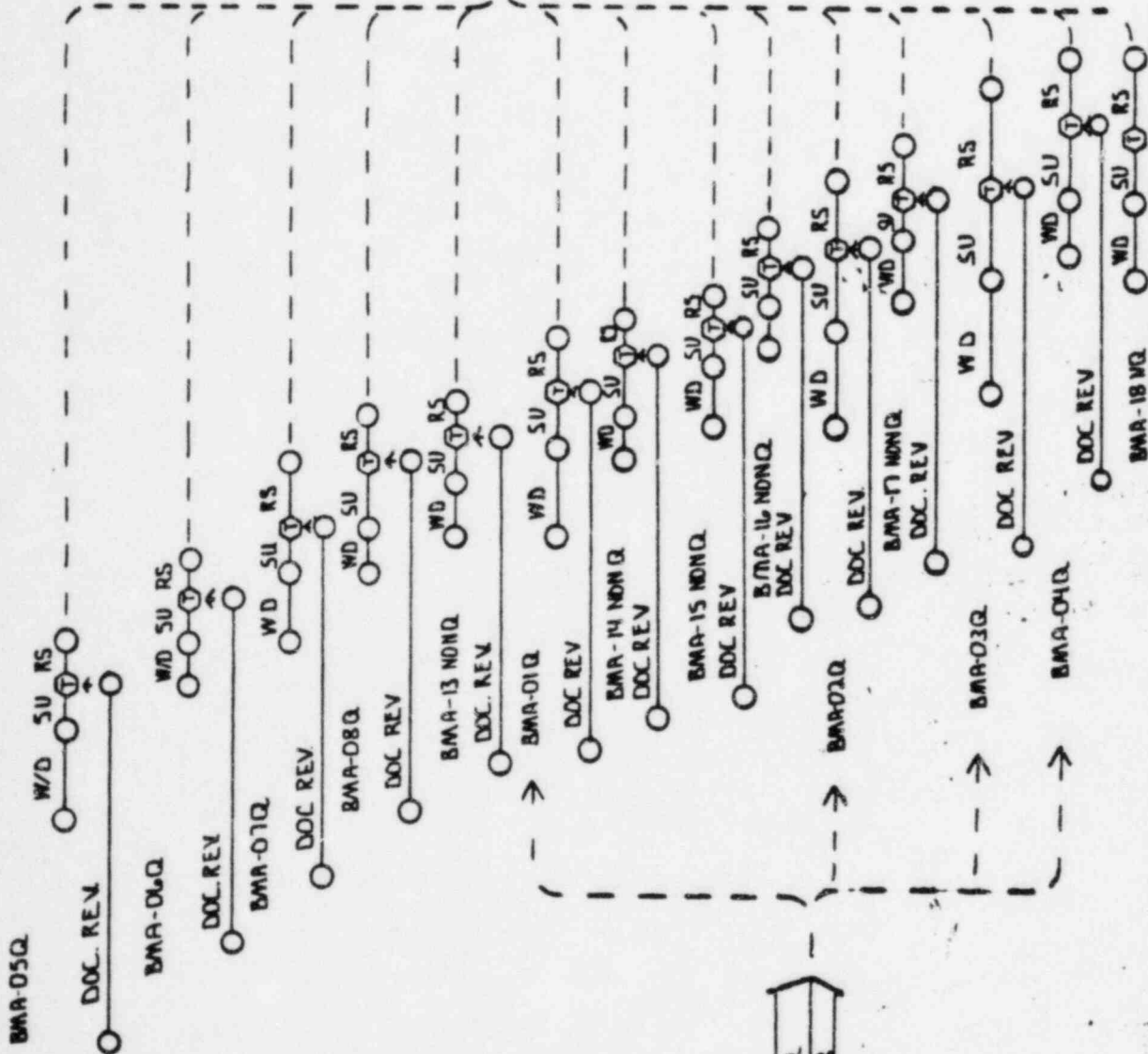
| <u>PIPE</u> | <u>HANGER</u> | <u>INSTR.</u> | <u>ELECT.</u> |
|-------------|---------------|---------------|---------------|
| 2NN3362P | | 2NN3127J | 2SD6174E |
| 2ND1306PW | | | 2SD7401E |
| 2ND1426P | | 1 | 2 |
| 2ND1432P | | | |
| 2ND1433P | | | |
| 2ND1454P | | | |
| 2ND1455P | | | |
| 7 | | | |

TOTAL - 10

| | | | | | | | | | | | | | | | | | | |
|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|
| 8-27 | 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 | 11-19 | 11-26 | 12-3 | 12-10 | 12-17 | 12-24 | 12-31 |
|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|

HYDRO'S
09 NONQ
10 "
11 "
12 "

WILL NOT BE TESTED
WITH 05Q 06Q 07Q 08Q
TEST DATES ARE PENDING.
HYDRO REVIEW



PAGE 2
12-10-87

PAGE 2
TUBING

| | | | |
|--|------|--|--|
| BMAEL CONSTRUCTION COMPANY BMAEL, BMAEL GARDENS CRITICAL PATH SCHEDULE | | | |
| BMA BLOWDOWN FLASH TANK | | | |
| Sheet | of 2 | | |

SCH. RFT 9-2-82
PRO. RFT 12-31-82

COMP HANGER TOTAL 405 ERECT 249

COMP INSTR. JO4 BMO2-D3 TUBING 40'

PAGE 1
HYDRO E2.34Q

INSTALL TI 17
P.O. 64274
FCST SHIP. 9-8

JOINT W/D
EXC LIST CAT I
DIC REL PKG

PAGE 1
12-10-82

COMPTERM. 102 (NO STATUS)

PULL CABLE 37 (NO STATUS)

RACEWAY 25 (NO STATUS)

CLOSE NCR DR

ELECT QC

[illegible]

NCR & DR

BMA

| <u>INSTR.</u> | <u>PIPE</u> | <u>ELECT.</u> | <u>CIVIL</u> | <u>HANGERS</u> | <u>W.R.</u> |
|---------------|-------------|---------------|--------------|----------------|-------------|
| 2ND0553 EJ | 2NN3333P | | 2ND1394C | | |
| | 2SD4077MR | 2SD7889E | | | |
| 1 | 2SD7787PW | | 2SN5032C | | |
| | 2SD4612MR | 1 | 2SN6430C | | |
| | 2SN5995P | | 2SN5801C | | |
| | 2SD7552PW | | 2SN6434C | | |
| | 2SD7554PW | | 2SN5806C | | |
| | 2SD7727PW | | | | |
| | 2SD7725PW | | 2SN6046C | | |
| | 2SD7728PW | | 2SN6057C | | |
| | 2SD8050P | | 2SN6058C | | |
| | 2SD7833PW | | 2SN6067C | | |
| | 2ND1444P | | | | |
| | 2ND1445P | | 2SN6133C | | |
| | 2SD7945PW | | | | |
| | 2SD7976P | | | | |
| | 2SD7995P | | 2SD7869P | | |
| | 17 | | 10 | | |

TOTAL - 31

WRP

TURBINE

B-142
B-143
B-144
B-145
B-146
5593
5576
5577
5571
5578

10

NCR & DR

ABA

| <u>HANGER</u> | <u>ELECT.</u> | <u>W.R.</u> | <u>INSTR.</u> | <u>PIPE</u> | <u>MECH.</u> |
|---------------|---------------|-------------|---------------|-------------|--------------|
| | 2SD1434E | | 2SD4745JR | 2SD7005PW | 2SN1034MR |
| | 2SD6730E | | 2SN4668J | 2SD7140PW | 2SN3893M |
| | 2SN5781E | 2SN4183C | 2SN5928JR | 2SD7179P | 2SN4938MW |
| | 2SD7610E | 2SN4263C | 2SD7952JR | 2SD7821PW | 2SN5453M |
| | 2SD7625E | 2SN6137C | | 2SD8069P | 2SN6484M |
| | 5 | 2SD7666CW | 4 | 2SN6129PW | |
| | | 2SN6523C | | 2SN6489PW | 5 |
| | | 5 | | 2SD7604PW | |
| | | | | 2SD7635PW | |
| | | | | 2SN6290PW | |
| | | | | 2SN6302PW | |
| | | | | 2SD7894PW | |
| | | | | 2SN6425P | |
| | | | | 2SD7415PW | |
| | | | | 2SN6278P | |
| | | | | 16 | |

TOTAL - 35

NCR & DR

AEB

| <u>W.R.</u> | <u>PIPE</u> | <u>INSTR.</u> | <u>HANGERS</u> | <u>ELECT.</u> | <u>CIVIL</u> |
|-------------|-------------|---------------|----------------|---------------|--------------|
| 2SD5349C | 2SN1412MR | | | 2SD6730E | 2SN6524C |
| | 2SD7506PW | | | | |
| 2SN5317CW | 2SD7553PW | | | 2SN6294E | 1 |
| 2SN5563C | 2SD7585PW | | | 2SN6311E | |
| 2SN5624C | 2SD7611PW | | | | |
| 2SD7966CX | 2SD7769M | | | 3 | |
| 2SD7990CW | 2ND1395P | | | | |
| 2SN6473C | 2SD7692M | | | | |
| | 2SD7716PW | | | | |
| 7 | 2SD7723PW | | | | |
| | 2SD7928PW | | | | |
| | 2SN6326PW | | | | |
| | 2SN6333PW | | | | |
| | 2SD7947PW | | | | |
| | 2SD8003P | | | | |
| | 2SD7986PW | | | | |
| | 16 | | | | |

TOTAL - 27

9/3 9/10 9/17 9/24 10/1 10/8 10/15 10/22 10/29 11/5 11/12 11/19 11/26

PIPE COMPLETE 19 TOTAL 15 ERECTED 0 WA JOINT WALKDOWN, COMR
 HANGERS LT 39 MER 3030 CAT 1 IT, REL, FPG, REV. S/U
 PISTR. LUBE OIL PUMP NOT ON SITE FIRST 10/15
 MECH. ELEC. NONE CODE CASE HYDROS OI 02Q
 QC NCR/DR ELEC-1

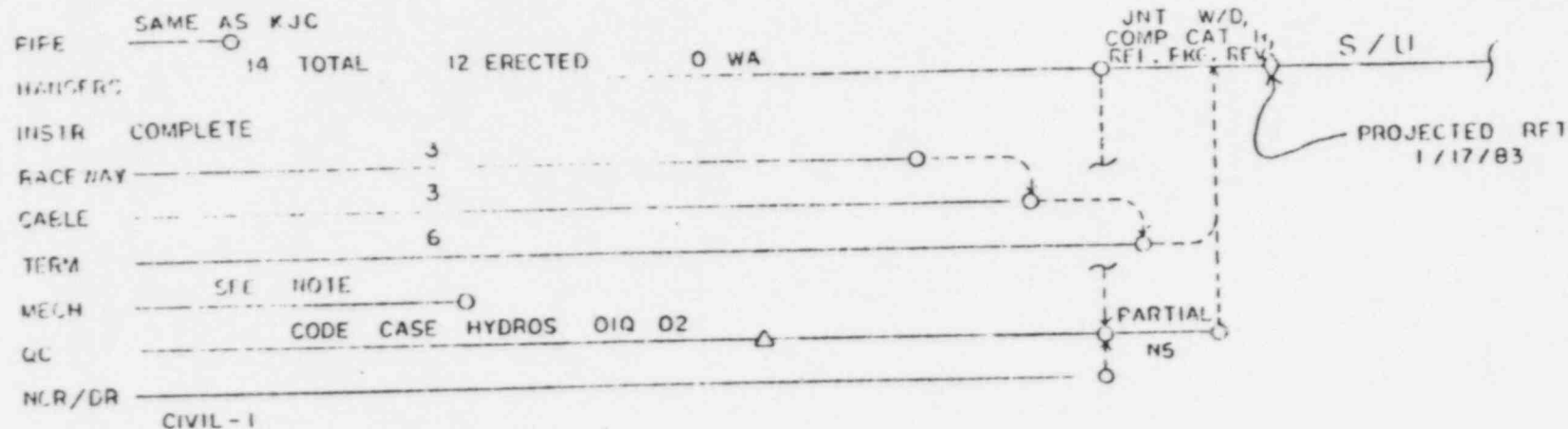
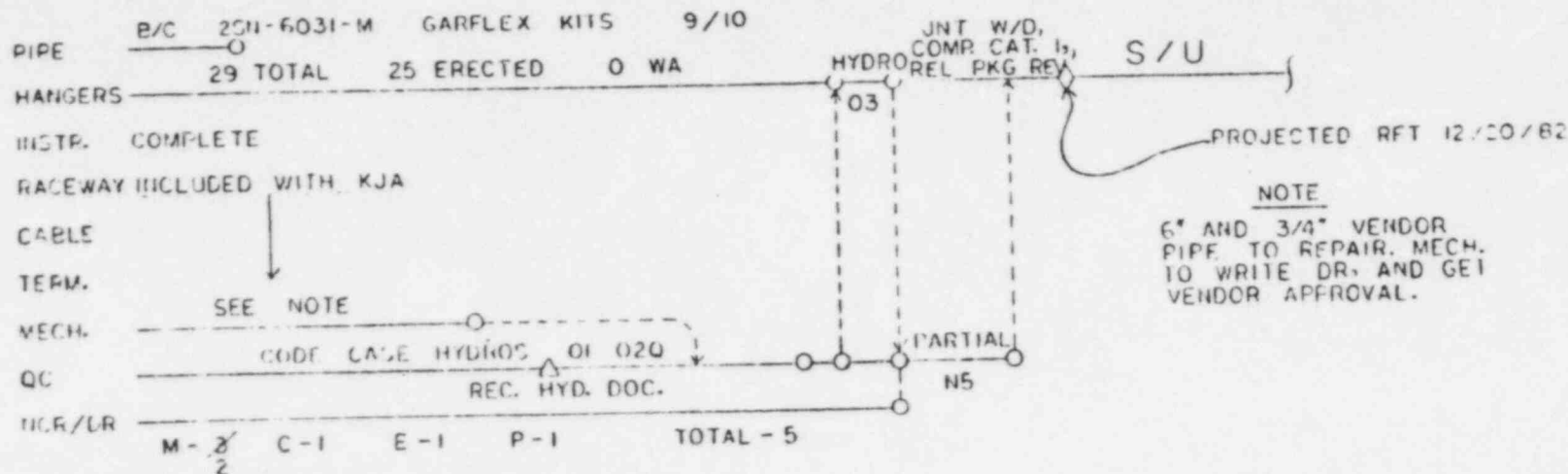
PROJECTED PFT 10/15/82

PIPE COMPLETE 17 TOTAL 12 ERECTED 0 WA JOINT WALKDOWN, COMR
 HANGERS LT 138 MER 3030 CAT 1 IT, REL, FPG, REV. S/U
 INSTR LUBE OIL PUMP NOT ON SITE FCST 10/15
 ELEC. NONE CODE CASE HYDROS OIQ, 02
 MECH. QC NCR/DR NONE

PROJECTED PFT 11/15/82

| | | |
|------|-------------|--|
| 8/30 | PRELIMINARY | DANIEL CONSTRUCTION COMPANY APPROVED FOR CONSTRUCTION CRITICAL PATH SCHEDULE |
| | | STANDARD |
| | | Sheet of |
| | | 2004 01/17 |

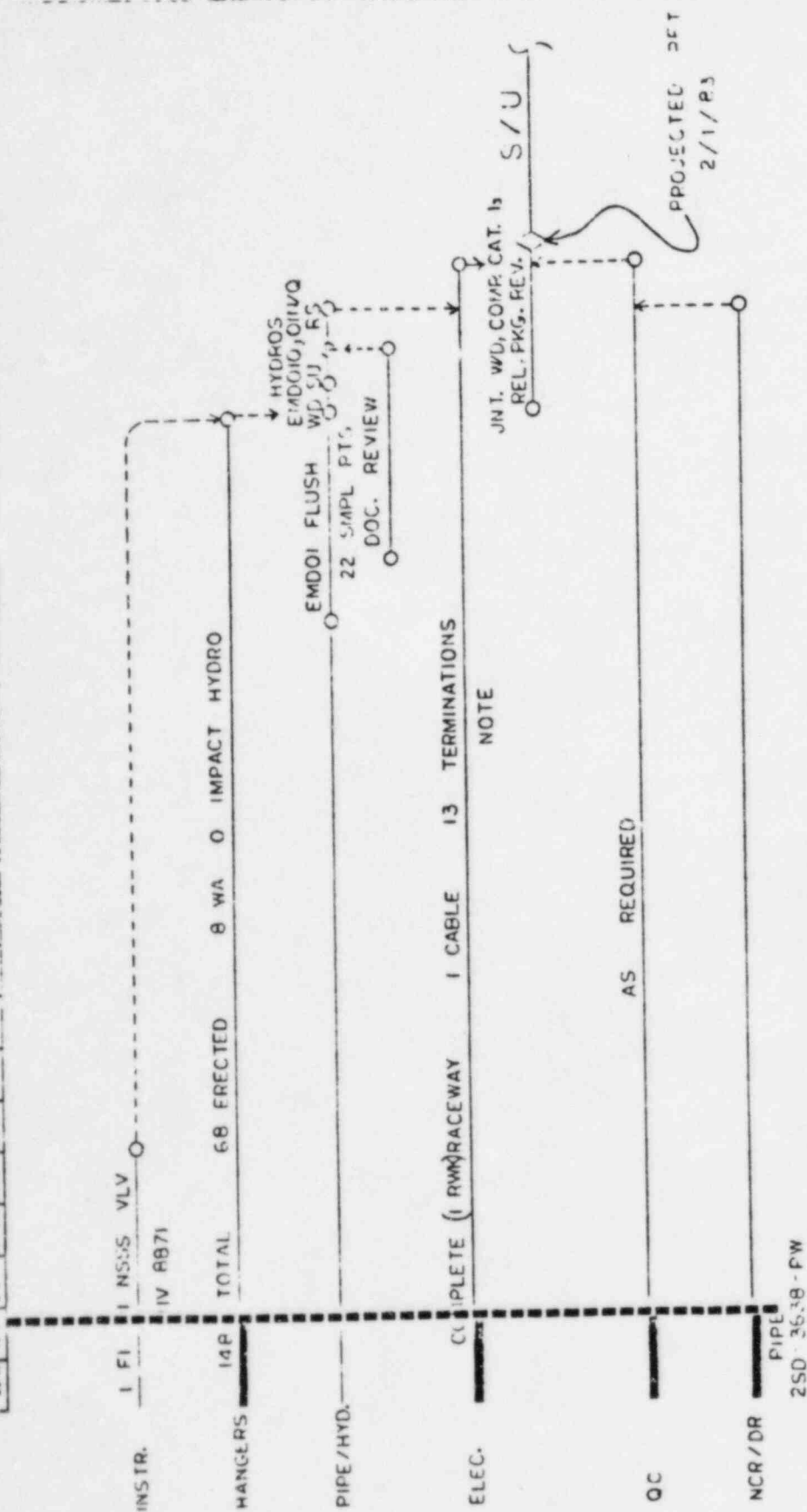
9/3 9/10 9/17 9/24 10/1 10/9 10/15 10/23 10/27 11/5 11/12 11/19 11/26 12/3 12/10 12/17 12/24 12/31 1/7 1/14 1/21 1/28




| | | | |
|---------|------|-------------|---|
| 0 | 8/30 | PRELIMINARY | DANIEL CONSTRUCTION COMPANY GREENVILLE, SOUTH CAROLINA CRITICAL PATH SCHEDULE |
| KJC KJC | | | DIESEL COOLING |
| Sheet | of | | |

JOHN CENTER EXT. 2.0

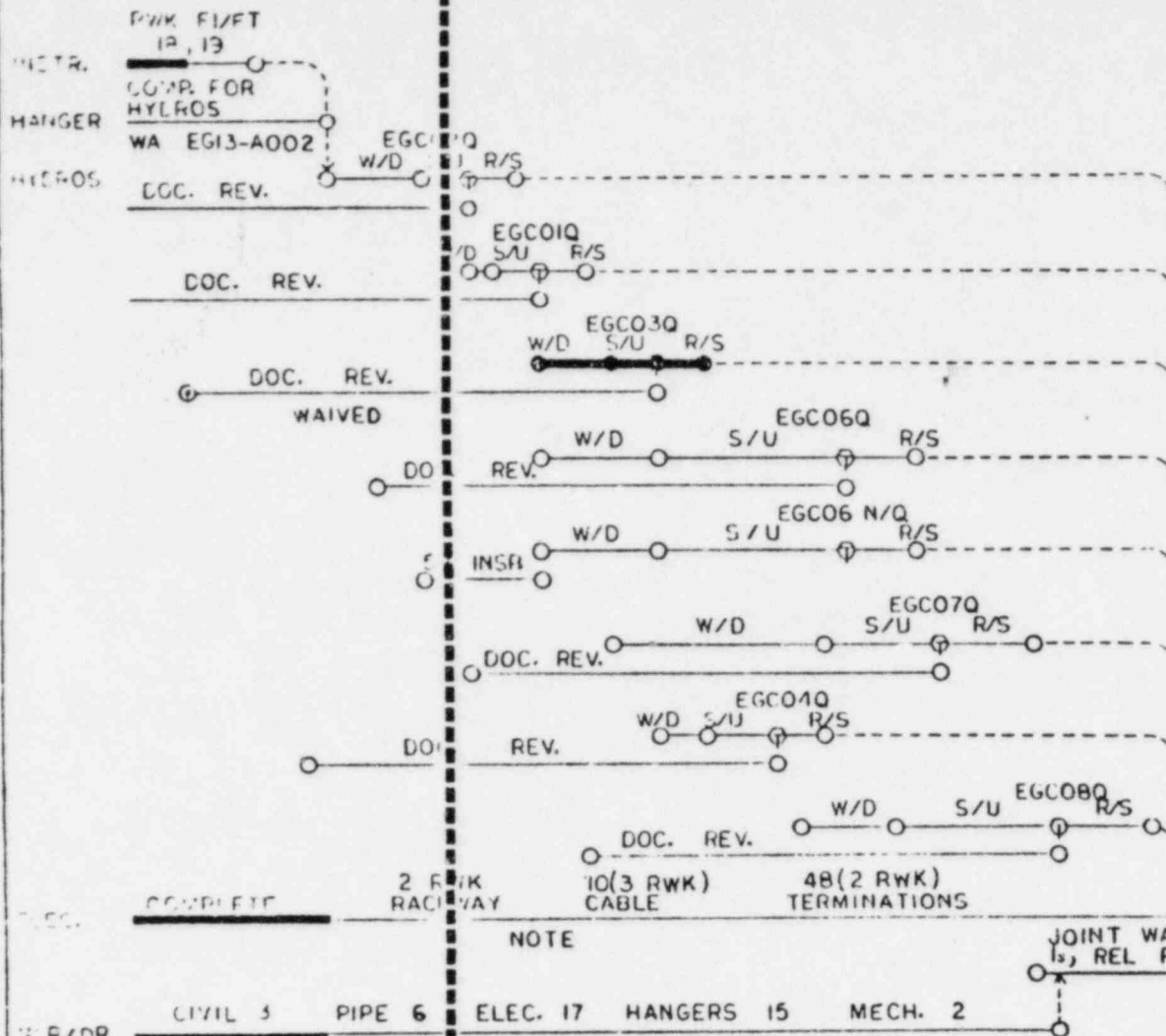
| | | | | | | | | | | | | | | | | | | | | | | |
|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-----|------|------|------|-----|
| 9/3 | 9/10 | 9/13 | 9/24 | 10/1 | 10/8 | 10/15 | 10/22 | 10/29 | 11/5 | 11/12 | 11/19 | 11/26 | 12/3 | 12/10 | 12/17 | 12/24 | 12/31 | 1/7 | 1/14 | 1/21 | 1/28 | 2/4 |
|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|-------|-------|-----|------|------|------|-----|



NOTE
2 SETS OF JUMPERS
FOR HV 8964, HV 8889B
NOT INSTALLED

| | | |
|-----|----------------|--|
| 9-2 | HYD/RFT UPDATE |  DANIEL CONSTRUCTION COMPANY 800-451-5000 10000 10th Avenue South Suite 100 Jacksonville, FL 32256 |
| 1 | | |

| | | | | | | | | | | |
|------|-----|------|------|------|------|------|-------|-------|-------|------|
| 9/27 | 9/3 | 9/10 | 9/17 | 9/24 | 10/1 | 10/8 | 10/15 | 10/22 | 10/29 | 11/5 |
|------|-----|------|------|------|------|------|-------|-------|-------|------|



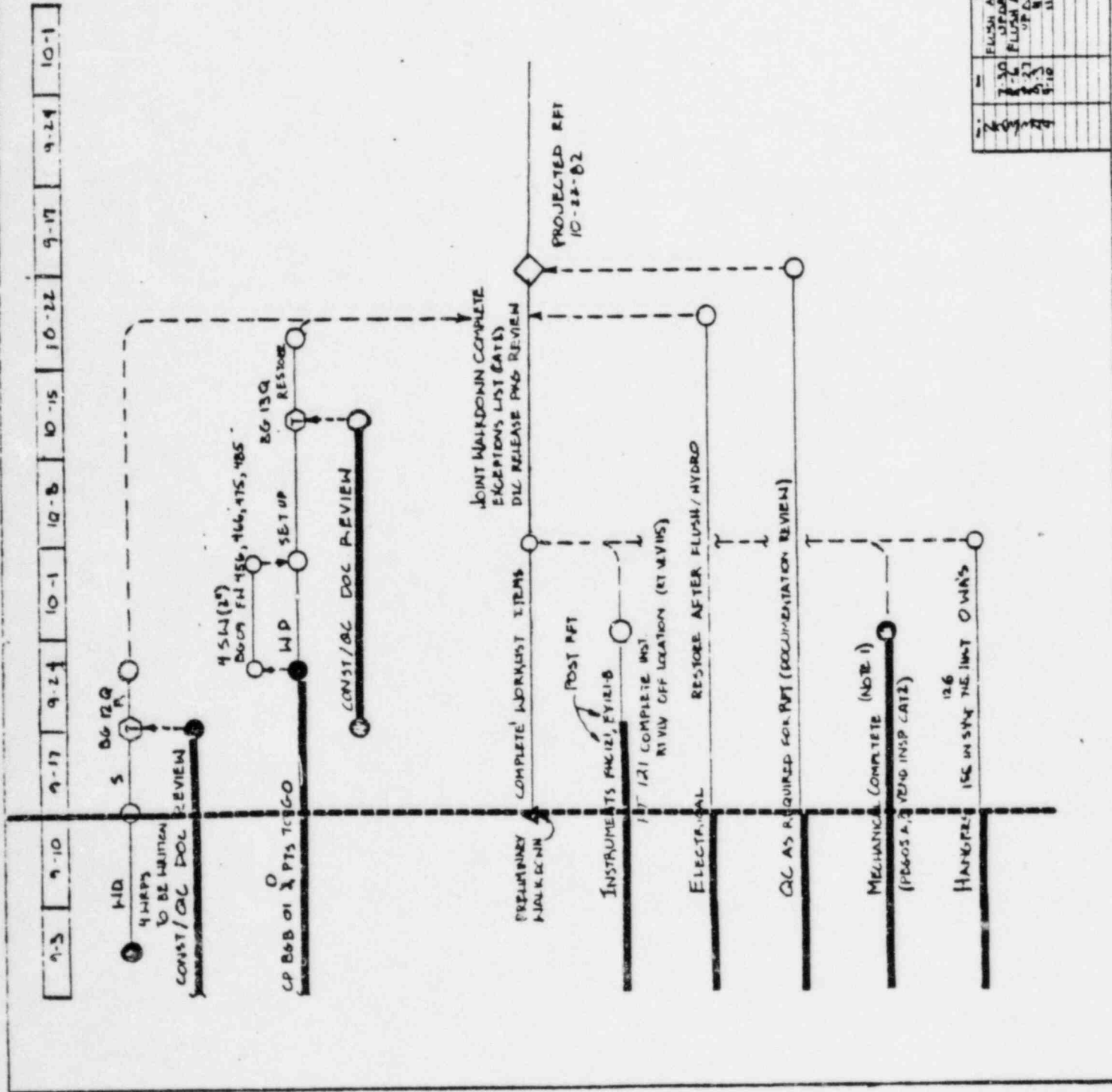
NOTE
NEW HYDRO REPORTS
COMING EGC07Q, 08Q

PROJECTED RFT 11/4/82

NOTE
3 TERM HV59 NOT IN
2 HV127

| | | | |
|--|--|--|--|
| DANIEL CONSTRUCTION COMPANY GREENWICH, SOUTH CAROLINA CRITICAL PATH SCHEDULE | | | |
| EGC CCW IN REACTOR | | | |
| Sheet of | | | |

JOHN CENTER EAST 200



NOTES:

- 1) CENTRIFUGAL CHARGING PUMPS (PAGOS A, B) AND SKIDS TO BE TURNED OVER TO START-UP AS SYSTEM BGD-3. JOINT WALKDOWN IS SCHEDULED FOR MONDAY 8-23. PROJECTED RPT IS WED 9-22-02.

| | | | | | |
|-----------------------------|------|-------------------------------------|------|------------------------|------|
| DANIEL CONSTRUCTION COMPANY | | ANALYSIS/UPDATE | | CRITICAL PATH SCHEDULE | |
| BGB-1 | | CENTRAL CHG PMS & DISCH (C/CHG) NEW | | Sheet 1 of 1 | |
| 7-30 | 7-30 | 7-30 | 7-30 | 7-30 | 7-30 |
| 8-6 | 8-6 | 8-6 | 8-6 | 8-6 | 8-6 |
| 8-23 | 8-23 | 8-23 | 8-23 | 8-23 | 8-23 |
| 9-10 | 9-10 | 9-10 | 9-10 | 9-10 | 9-10 |

T. POWELL
9/10/82

BGB-1

| <u>PIPE</u> | <u>ELECT.</u> | <u>HANGER</u> | <u>CIVIL</u> | <u>MECH.</u> |
|-------------|---------------|---------------|--------------|--------------|
| 2SN1919P | 2SD5605E | 2SD2613M | *2ND1429C | |
| *2SN5742P | | 2SD5493M | *2ND1452C | |
| *2SD7770P | 1 | *2SD6141M | *2ND1456C | |
| *2SD7615P | | *2SD7534M | *2SD7863C | |
| *2SD7778PW | | | *2SN6373C | |
| *2SD7798P | | *2SD7784MW | *2SN6392C | |
| *2SD7910P | | *2SD7919MH | *2ND1457C | |
| *2SN6422P | | *2SD7949MH | *2NN3459C | |
| | | *2SN6386MW | | |
| 8 | | *2SN6416MH | 8 | |

9

*These items have not been split into BGB-1 and BGB-2.

TOTAL - 26

OPEN WRP's

None

T. POWELL
9/10/82

BGB-2

| <u>PIPE</u> | <u>CIVIL</u> | <u>HANGER</u> | <u>MECH.</u> |
|-------------|--------------|---------------|--------------|
| 2SD4339P | | 2SD2618M | |
| 2SD6487P | 2SN5620C | 2SD6142M | |
| 2SN4851M | *2ND1429C | 2SN5336M | |
| 2SD6823PW | *2ND1452C | *2SD7534M | |
| *2SN5742P | *2ND1456C | *2SD6141M | |
| *2SD7798P | *2SD7853C | | |
| *2SD7778PW | *2SN6373C | *2SD7784MW | |
| *2SD7615P | *2SN6392C | *2SD7919MH | |
| *2SD7770P | *2ND1457C | *2SD7949MH | |
| *2SD7910P | *2NN3459C | *2SN6386MW | |
| *2SN6422P | | *2SN6416MH | |
| 11 | 9 | 10 | |

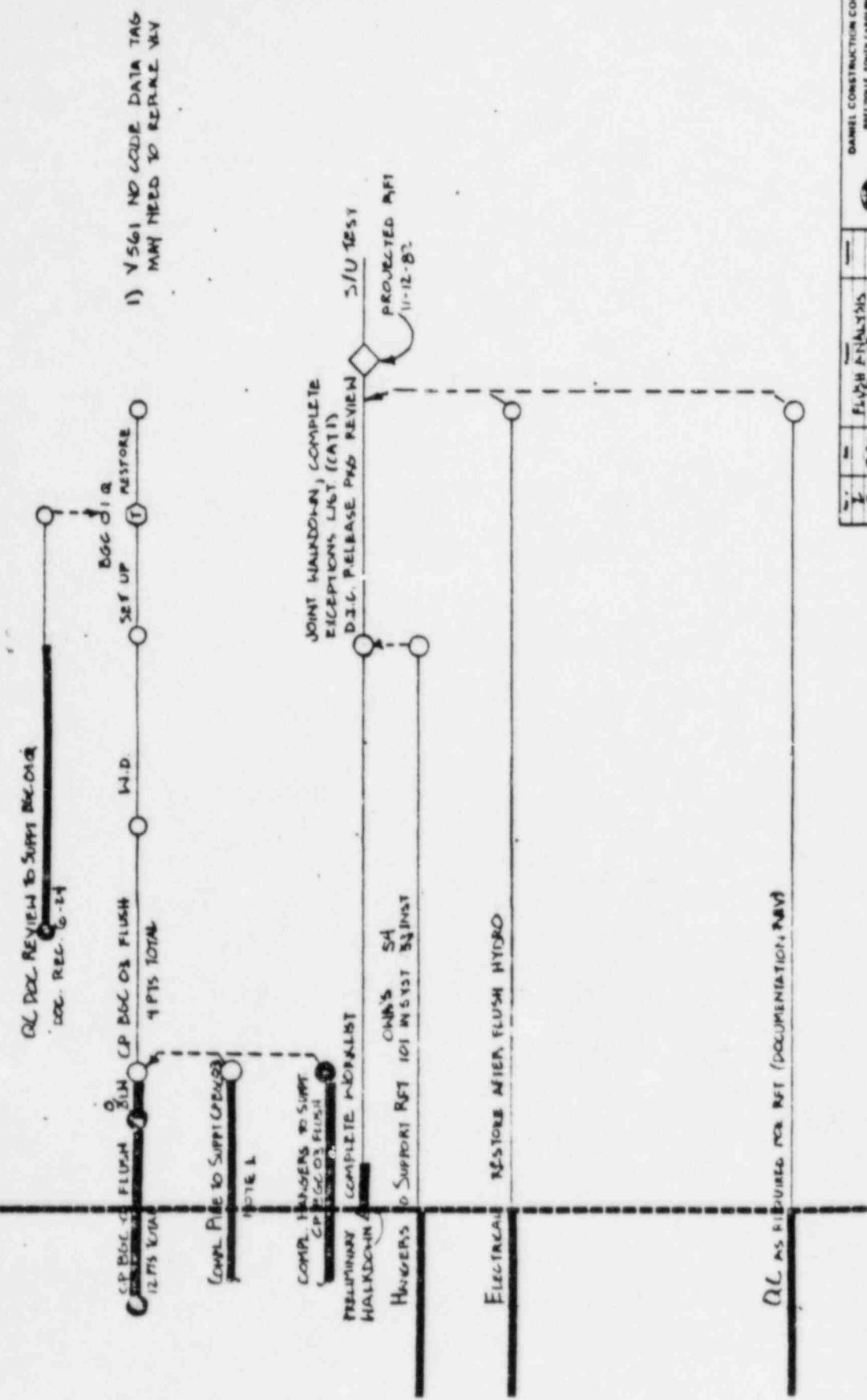
*These items have not been split into BGB-1 and BGB-2.

TOTAL - 30

OPEN WRP's (8)

| | |
|------|---------|
| 5355 | Reactor |
| 5564 | Reactor |
| 5563 | Reactor |
| 5467 | Reactor |
| 5561 | Reactor |
| 5518 | Reactor |
| 5539 | Reactor |
| 5546 | Aux. |

| | | | | | | | | | | |
|-----|------|------|------|------|------|-------|-------|-------|------|-------|
| 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 |
|-----|------|------|------|------|------|-------|-------|-------|------|-------|



1) V 561 NO CODE DATA TAG
MAY NEED TO REPAIR V&V

| | | | |
|--|--|---|--|
| | | DANIEL CONSTRUCTION COMPANY 8001 WILSON SOUTH CAROLINA CRITICAL PATH SCHEDULE | |
| BGC-1 PDP CHG PUMP + DISCHG RNC-120 | | Sheet 3 of 3 | |
| FLUSH ANALYSIS 7-20 8-17 9-10 | FLUSH ANALYSIS 7-20 8-17 9-10 | FLUSH ANALYSIS 7-20 8-17 9-10 | FLUSH ANALYSIS 7-20 8-17 9-10 |

TOM POWELL 179,220

T. POWELL
9/10/82

BGC-1

| <u>PIPE</u> | <u>ELECT.</u> | <u>HANGERS</u> | <u>CIVIL</u> | <u>MECH.</u> | <u>INSTR.</u> |
|-------------|---------------|----------------|--------------|--------------|---------------|
| 2SD6824PW | *2NN3439E | 2SD6140MW | *2SD7360C | | *2SN2658M |
| 2SD7122PW | *2SN5858E | 2SD6875M | *2SN6014C | | |
| 2SD7349P | *2SN6202EJ | *2SD7840MH | | | 1 |
| *2SD7695P | *2SN6263E | *2SD7853MH | 2 | | |
| *2SN6419P | *2SD7158ER | *2SD7861MH | | | |
| *2SD6392P | | | | | |
| *2SN6475P | 5 | 5 | | | |
| 7 | | | | | |

*These items have not been split into BGC-1 and BGC-2.

TOTAL - 20

OPEN WRP's

None

T. POWELL
9/10/82

BGC-2

| <u>PIPE</u> | <u>INSTR.</u> | <u>CIVIL</u> | <u>ELECT.</u> | <u>MECH.</u> | <u>HANGER</u> |
|-------------|---------------|--------------|---------------|--------------|---------------|
| 2SD5384P | 2NN3147J | 2SN5030C | 2NN2093EJ | 2SN3921M | 2SD3324M |
| 2SD4244M | *2SN2658M | 2SN5156C | | | 2SD3956M |
| | | 2SN5789C | *2SN6202EJ | 1 | *SD4057M |
| 2SD6917P | 2 | *2SN6014C | *2SN6263E | | 2SD4210M |
| 2SN5706P | | *2SD7360C | *2SD7758ER | | 2SD4497M |
| *2SD6392P | | | *2NN3439E | | 2SD6456M |
| *2SD7695P | | 5 | *2SN5858E | | 2SN5337M |
| *2SN6419P | | | | | *2SD7840MH |
| *2SN6475P | | | 6 | | *2SD7853MH |
| | | | | | *2SD7861MH |
| 8 | | | | | 10 |

*These items have not been split into BGC-1 and BGC-2.

TOTAL - 32

OPEN WRP's

None

Description: Caustic Soda
Freeze Protection
Milestone: Secondary Hydro
Sched. RFT: 5/17/82
Proj. RFT: _____

System: QJD

Status As Of: 9/10/82

| | <u>STATUS</u> | <u>NCR/DR</u> |
|--|---------------|---------------|
| <u>Piping:</u> | | <u>0</u> |
| Large Welds _____ | 0 | |
| Small Welds _____ | 0 | |
| Large Conns. _____ | 0 | |
| Small Conns. _____ | 0 | |
| <u>Hydro:</u> _____ | 0 | <u>0</u> |
| _____ | | |
| <u>Mechanical:</u> _____ | 0 | <u>0</u> |
| _____ | | |
| <u>Instm'ts:</u> _____ | 0 | <u>0</u> |
| _____ | | |
| <u>Electrical:</u> | | |
| Raceway _____ | 64 | |
| Cables _____ | 64 | |
| Term. _____ | 128 | |
| Equip. <u>Check Critical Restraint</u> | | |
| <u>Hangers:</u> | | <u>0</u> |
| Weld Attachm'ts _____ | 0 | |
| Supp't Hydro/Flush _____ | 0 | |
| <u>Civil:</u> _____ | 0 | |
| _____ | | |

CRITICAL RESTRAINTS

1. QJ170 panel E-018 FCST = 11/15/82
2. Location for panel = DCP E26 Issue 9/8. "Need relocation of panel due to conduit interference.
3. XQJ05 transformer P.O. E052-2 - Not on Site - Ship Date 9/3/82.

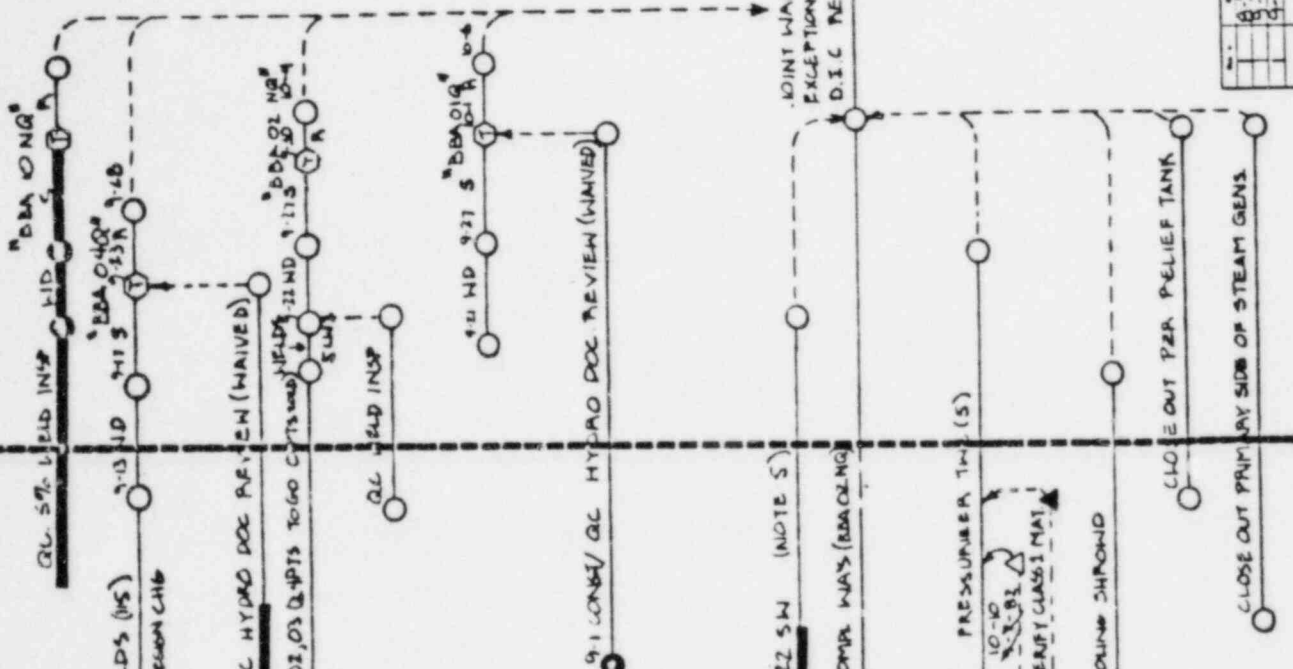
SCHEDULE ANALYSIS

Electrical to provide temporary freeze protection for KSA. Start-Up to provide temporary panel. RFT will be determined by procurement of panel QJ170.

| | | | | | | | | | | | | | |
|-----|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|
| 8-6 | 8-13 | 8-20 | 8-27 | 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 |
|-----|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|

NOTES:

- 1) REACTOR COOLANT PUMP SEAL PAKS, PUMP COUPLING AND FINAL ALIGNMENT WILL BE DONE POST PFT DURING A 6 WEEK PERIOD PRIOR TO P.V. FINAL CLEANING FOR PRIMARY HYDRO.
- 2) PRESSURIZER CLOSOUT TO BE POST PFT PRIOR TO P.V. FINAL CLEANING DUE TO NOZZLE REPAIRS (FOST EARLY NOVEMBER) AND ASSOCIATED FLUSHING.
- 3) CP BDA 03 P.C.S LOOP FLUSHES (HAND CLEAN) TO BE DONE POST PFT PRIOR TO SETTING INTERNALS AND VESSEL HEAD FOR PRIMARY HYDRO.
- 4) NSSS EQUIPMENT SUPPORTS COLD GAP SETTINGS WILL BE COMPLETED BY PRIMARY HYDRO NOT BDA PFT
- 5) ZSN 5747 PW (MIN WALL VIOLATION) POST K04



PIPE TOTAL QUANTITIES TO GO IS LW 12 SW (NOTE 5)

HANGERS 575 IN SYST 100 ERECTED 3 ENCOMP WAS (REACTOR)

INSTALLMENTS

UPGRADE NEW HARDWARE

CLOSE OUT PER RELIEF TANK

CLOSE OUT PRIMARY SIDE OF STEAM GEN'S

JOINT WALKDOWN, COMPLETE EXCEPTIONS LIST CAT 1 ITEMS D.I.C RELEASE PAK REVIEW

S/U TESTING
PROJECTED PFT
10-29-82
SCHEDULED PFT
3-19-82
-32 WEEKS FLOAT

KEY

| | |
|----|--------------------------|
| WD | HYDRO WALKDOWN |
| S | SET-UP FOR HYDRO |
| ① | HYDRO TEST |
| P | RESTORE SYST. AFTER TEST |

| | |
|---|------|
| DANIEL CONSTRUCTION COMPANY UNIONVILLE, SOUTH CAROLINA CRITICAL PATH SCHEDULE | |
| BDA REACTOR COOLANT-MECHANICS | |
| Sheet | of 1 |

T. POWELL
9/15/82

BBA

| <u>PIPE</u> | <u>CIVIL</u> | <u>ELECT.</u> | <u>MECH.</u> | <u>HANGERS</u> | <u>INSTR.</u> |
|-------------|--------------|---------------|--------------|----------------|---------------|
| 2SD5881PW | 2SN4770C | | 2ND0872M | | 2SN4038JW |
| 2SD6048FW | 2SN4993C | | 2SD6762M | | 2SN5356JW |
| 2SD6263PW | 2SD8016CW | | 2SN0616MR | | 2SN5702JR |
| 2SD6770PW | 2SN5601C | | 2SN0653MR | | |
| 2SD6852P | 2SN5718C | | 2SN0716MR | | 3 |
| 2SD7125M | 2SN5755C | | 2SN0717MR | | |
| 2SN2684P | 2SN5997C | | 2SN1066M | | |
| 2SN2885P | 2SN6017C | | 2SN1817MR | | |
| 2SD8110PW | 2SN6039C | | 2SN2041MR | | |
| 2SN5747PW | 2SN6073C | | 2SN2042MR | | |
| 2SN5804PW | 2SN6142C | | 2SN2154MR | | |
| 2SN5138MW | 2SN6153C | | 2SN2193MR | | |
| 2SN6200P | 2SN6162C | | 2SN2194MR | | |
| 2SD7505PW | | | 2SN3545MR | | |
| 2SD7512P | 2ND1371C | | 2SN4969M | | |
| 2SN6469P | | | 2SN5382M | | |
| 2SN6470P | 14 | | 2SN5457M | | |
| | | | 2SN6203M | | |
| 17 | | | 18 | | |

TOTAL - 52

OPEN WRP'S

| | |
|------|---------|
| 5520 | Reactor |
| 5598 | Reactor |
| 4519 | Reactor |
| 5449 | Reactor |
| 5587 | Reactor |
| 5594 | Reactor |

System: BBB-1

Description: RCP Motors

Status As Of: 9/14/82

Milestone: Primary

Sched. RFT: _____

Proj. RFT: 10-1-82

STATUS

NCR/DR

Piping:

Large Welds N/A

Small Welds N/A

Large Conns. N/A

Small Conns. N/A

Hydro: _____

Mechanical: Complete

Instm'ts: Complete Vendor Supplied

Electrical:

Raceway 5 No change in 2 weeks.

Cables 12

Term. 106 - 28 will be Cat. 2

8 Need Disp. 2NN3449-E No FCST

Hangers: 70 Working

Weld Attachm'ts None

Supp't Hydro/Flush None

Civil: _____

CRITICAL RESTRAINTS

TB's needed for RP068, Bechtel resolution needed. Est. 9/30/82.
2FC-1762-E cable routing - Dispositioned 9/14.

SCHEDULE ANALYSIS

Final vibration probe inst. on hold until seals are installed.

| | | | | | | | | | | | | | | | |
|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|
| 8-13 | 8-20 | 8-27 | 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 | 11-19 | 11-26 |
|------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|

Notes:

- 1) UP 00001 FLUSH, RTD MANIFOLDS WILL BE FLUSHED DURING PRESSURIZATION FOR PRIMARY COOL HYDRO.
- 2) 2) 204 DB13 (4 INSTA) ON HOLD FOR DESIGN CHANGE REST 10-1 REF. UILE 350
- 3) 204 DB15 (2 INSTA) REDESIGN PER UILE 355 (DOP PDL-30) REST 11/1/82
- 4) 204 DB14 (2 INSTA) REDESIGN PER UILE 317 (DOP PDL-30) REST 11/1/82
- 5) 4 INSTA 204 DB16 TO BE REDESIGNED REST 11/1/82
- 6) 2) 2) ELECT EQUIP C/P 317B TO 23114, 23208, 23206, 23212, 13302, 23207 NO 2020 REST 9-30
- 7) NEED DISP. EFC-1623-E REST 9-30 PENDING 1/2 CONFORMANCE PER UILE 357
- 8) 2) 2) 1755 EQ-13 DISB, 9-15 AT DOC CONT
- 9) 2) 2) 1757 EQ-10 DISB NOT " " " "
- 10) 2) 2) 1758 EQ-10 DISB NOT " " " "

JOINT WALKDOWN, COMPLETE EXCEPTIONS LIST (CAT 1 ITEMS) D.I.C. RELEASE P&B REVIEW

PROJECTED APT
12-1-82
SCHEDULED APT
3-5-82
-35 WEEKS FLOAT

- W - HYDRO WALKDOWN
- S - SET-UP FOR HYDRO
- ① - HYDRO TEST
- A - RESTORE AFTER HYDRO

DANIEL CONSTRUCTION COMPANY
BIRMINGHAM, SOUTH CAROLINA
CRITICAL PATH SCHEDULE

BBB-2

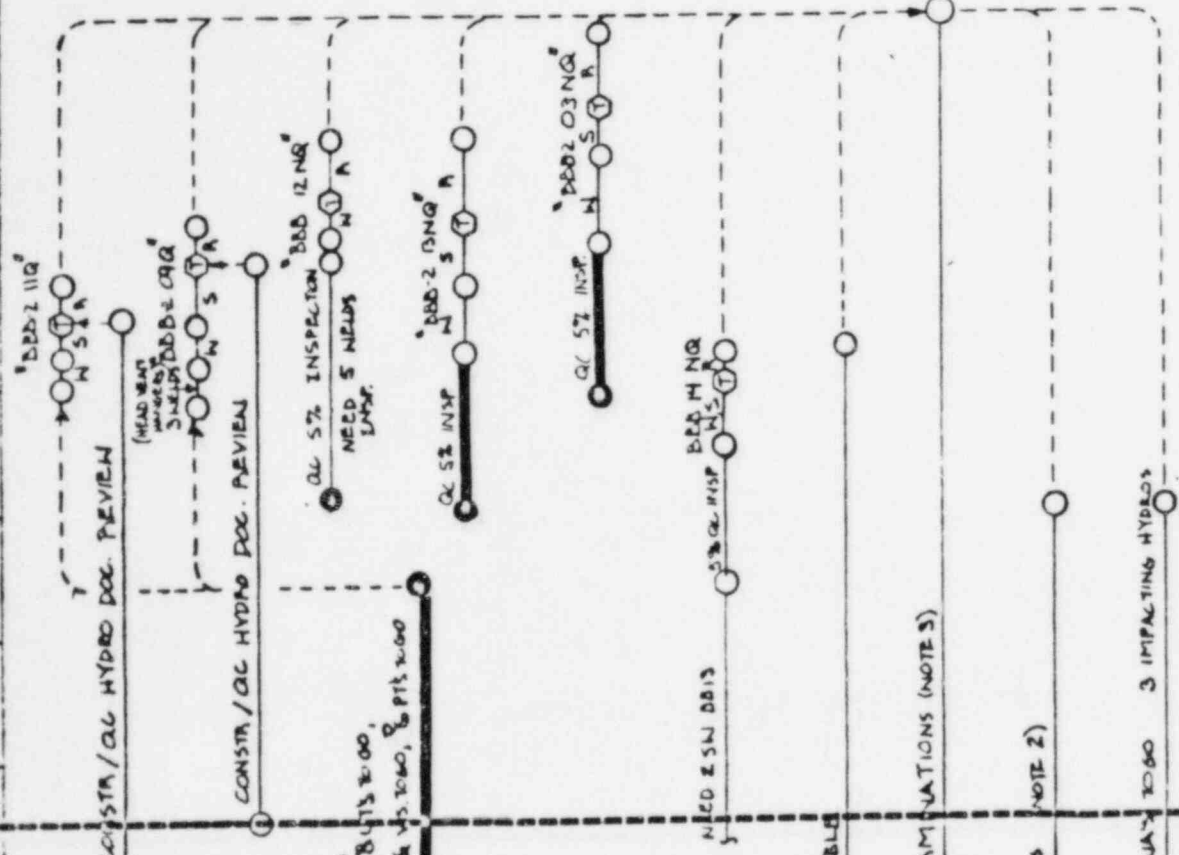
REACTOR COOLANT SYSTEM P&B

RTD MANIFOLD

Sheet 1 of 1

TOM POWELL 1M, 230

| | | | | | | | | | | | | | | | |
|----------------|------|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|
| 8-13 | 8-20 | 8-27 | 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 | 11-19 | 11-26 |
| HYDRO ANALYSIS | | | | | | | | | | | | | | | |
| UPDATE | | | | | | | | | | | | | | | |



PIPE, TOTAL QUANTITIES TO GO 1834 3 WORKABLE

ELECTRICAL 71 202 611 78 RACEWAY 206 CABLE 618 TERMINATIONS (NOTES)

INSTRUMENTS 36 INSTA TO GO 8 8 CONTROL VLV'S (NOTE 2)

HANGERS 330 336 IN SYSTEM 154 ERECTED 25 MAY 7000 3 IMPACTING HYDRO'S

T. POWELL
9/15/82

BBB

| <u>PIPE</u> | <u>CIVIL</u> | <u>ELECT.</u> | <u>INSTR.</u> | <u>MECH.</u> | <u>HANGERS</u> |
|-------------|--------------|---------------|---------------|--------------|----------------|
| 2SD7372P | 2ND1257C | 2NN1931E | | 2SN4966M | |
| 2SD7402PW | 2SD7165C | 2NN2901E | | | |
| 2SD7645PW | 2SN1717C | 2NN2954E | | 1 | |
| 2SN6517P | 2SN1897C | 2SD5835E | | | |
| | 2SN6035C | 2SD6188E | | | |
| 4 | 2SN6264C | 2SD6295E | | | |
| | 2SN6229C | 2SD7931E | | | |
| | 2SN6428C | 2SN4631E | | | |
| | 2SN6465CX | 2SD7847E | | | |
| | 2SN6527CX | 2SN5809E | | | |
| | | 2SN5835E | | | |
| | 10 | 2SD6635E | | | |
| | | 2SD7951E | | | |
| | | 2SD7968E | | | |
| | | 2NN3316E | | | |
| | | 2SN6276E | | | |
| | | 2SN6391E | | | |
| | | 2NN3449E | | | |
| | | 2SD8088E | | | |
| | | 2SN6516E | | | |
| | | 20 | | | |

TOTAL - 35

OPEN WRP'S

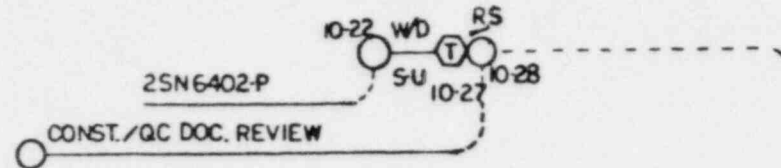
| | |
|------|---------|
| 5533 | Reactor |
| 4928 | Reactor |
| 5544 | Reactor |
| 5557 | Reactor |
| 5419 | Reactor |
| 5516 | Reactor |
| 5306 | Reactor |
| 5575 | Reactor |
| 5470 | Reactor |
| 5549 | Reactor |
| 5565 | Reactor |

TOTAL - 11

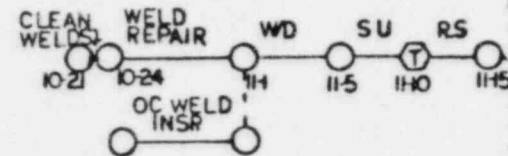
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|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|
| 8-27 | 9-3 | 9-10 | 9-17 | 9-24 | 10-1 | 10-8 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 | 11-19 | 11-26 |
|------|-----|------|------|------|------|------|-------|-------|-------|------|-------|-------|-------|

HBA-03-NQ NO HYDRO DATE

HBA-05 Q



HBA-08 -NQ



SEE NOTE (1)

PROJECTED RFT
11-19-82
SCHEDULED RFT
3-15-82
FLOAT -36 WKS

COMP. WORKLIST ITEMS

| | | |
|------|------|------|
| PIPE | MECH | ELEC |
| 8 | 3 | 38 |

HYDRO LEGEND
WD HYDRO WALKDOWN
SU. SET UP HYDRO
① HYDRO TEST
RS. RESTORE SYSTEM

Rev. 2 Date: 9-15-82
Submitted By: Joe Phelps
Review By: Discipline Manager
Electrical: James C. W. 9-15-82
Pipe/Instr.: 9-15-82
Mechanical: 7-14-82
Hangers: 7-14-82
Q.C.: 9-15-82
Approved By: 9-15-82
DIC Construction Manager

NOTE (1)

HBA-10-NQ IN SERVICE
HBA-11-NQ CODE CASE

| Rev. | Date | Description |
|------|------|----------------|
| 2 | 8-31 | HYDRO ANALYSIS |
| 2 | 9-15 | UPDATE |

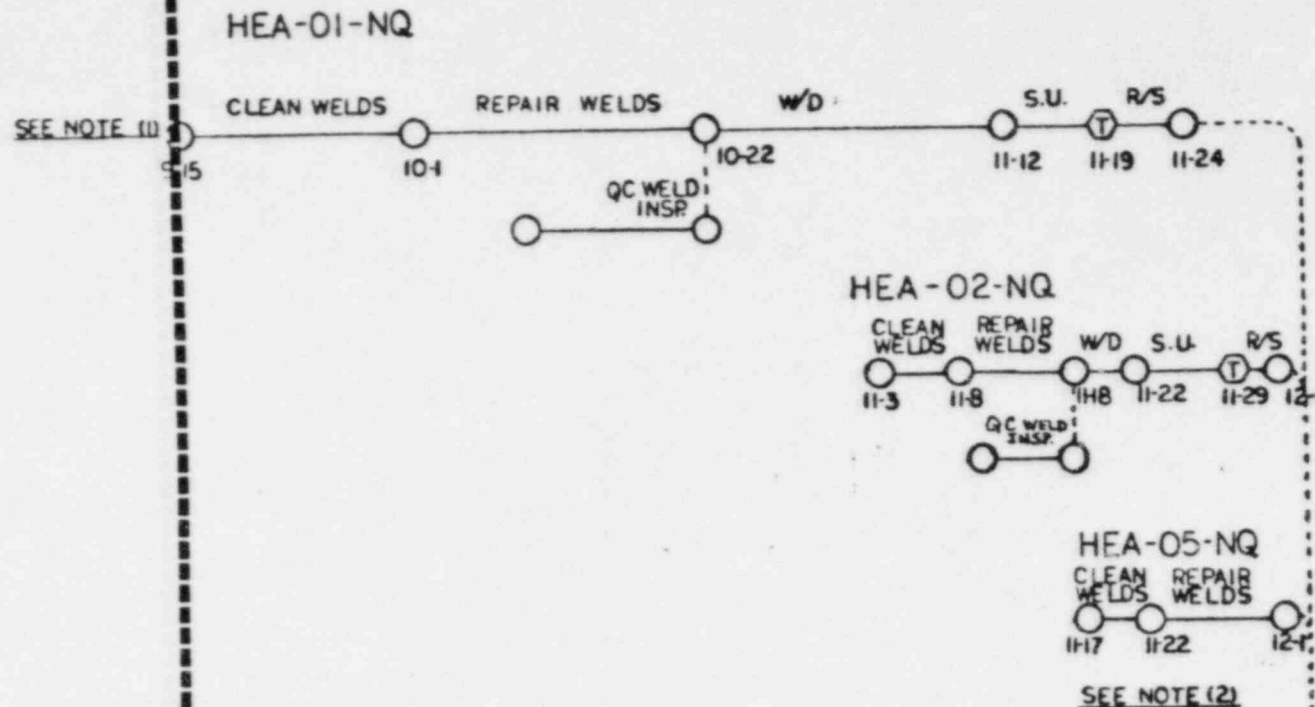
PRIMARY HYDRO

DANIEL CONSTRUCTION COMPANY
GREENVILLE SOUTH CAROLINA
CRITICAL PATH SCHEDULE

HBA
LIQ. RW RX COOLANT DR
TANKS & PUMP

Sheet of
JOE PHELPS 179, 220

8-20 8-27 9-3 9-10 9-17 9-24 10-1 10-8 10-15 10-22 10-29 11-5 11-12 11-19 11-26 12-3 12-10 12-17 12-24 12-31



COMP. WORKLIST ITEMS

PIPE 9 MECH 2 ELEC 13

PROJECTED RFT
12-8-82
SCHEDULED RFT
5-24-82
FLOAT: -28 WKS.

HYDRO LEGEND

W/D HYDRO WALKDOWN
SU SET UP HYDRO
T HYDRO TEST
R/S RESTORE SYSTEM

Rev. 2 Date: 9-13-82
Submitted By: Joe Phelps
Review By: Discipline Manager
Electrical: Daniel C. Phelps 8-15-82
Pipe Instr.: 8-15-82
Mechanical: 9-14-82
Loggers: 9-14-82
G.C.: 9-15-82
Approved By: [Signature] 9-15-82
DLC Construction Manager

NOTE (1)

FLUSH CP-HEA-01 POST RFT

NOTE (2)

HEA-05-NQ CODE CASE

PRIMARY HYDRO

| Rev. | Date | Description |
|------|------|----------------|
| 2 | 8-31 | HYDRO ANALYSIS |
| 2 | 9-7 | UP DATE |
| 2 | 9-15 | UP DATE |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

DANIEL CONSTRUCTION CO.
GREENVILLE SOUTH CAROLINA
CRITICAL PATH SCHED

HEA

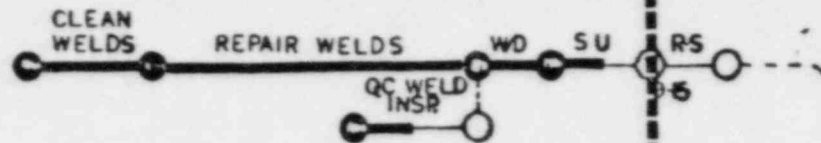
RECYCLE HOLDUP TANK INU

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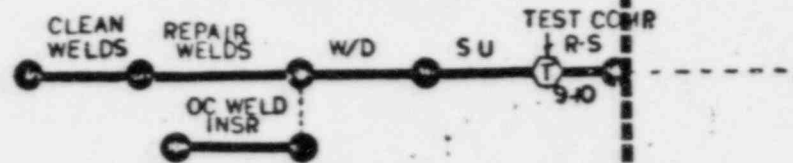
JOE PHELPS 179,220

7-30 8-6 8-13 8-20 8-27 9-3 9-10 9-17 9-24 10-1 10-8 10-15 10-22 10-29

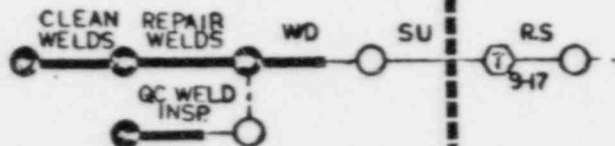
HEB-01-NQ



HEB-02-NQ



HEB-04-NQ



SEE NOTE (1)

COMP. WORKLIST ITEMS

ELEC. PIPE MECH INSTR
7 22 10 2

JOINT WALKDOWN COMPLETE
EXCEPTIONS LIST (CAT II)
D.I.C. RELEASE PKG. REVIEW

PROJECTED RFT
10-15-82
SCHEDULED RFT
6-8-82
FLOAT -19 WKS.

NOTE (1)
HEB-05-NQ CODE CASE

HYDRO LEGEND

W/D HYDRO WALKDOWN
SU SET UP HYDRO
T HYDRO TEST
RS RESTORE SYSTEM

Rev. 3 Date: 9-13-82
Submitted By: Joe Phelps
Reviewed By: Marjorie Hancock
Electrical: [Signature] 9-15-82
Pipe/Instr.: [Signature] 9-14-82
Mechanical: [Signature] 9-14-82
Sensors: [Signature] 9-15-82
G.C.: [Signature] 9-15-82
Approved By: [Signature]
D.I.C. Construction Manager

| Rev. | Date | Description |
|------|------|-----------------------|
| 3 | 9-15 | HYDRO ANALYSIS UPDATE |
| | | |
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| | | |
| | | |

PRIMARY HYDRO

DANIEL CONSTRUCTION COMPANY
GREENVILLE, SOUTH CAROLINA
CRITICAL PATH SCHEDULE

HEB
RECYCLE EVAPORATOR
PUMPS & DEMIN.

Joe Phelps 179, 220

Bill -

9/18 (1)

Here is additional info
Schnell provided to help
you w/ any comments on
EF meeting summary.

For what it's worth, I'm
convinced from my site visits
& dealings w/UE that their
performance is better than industry
average.

HFT began on schedule 11/15
& the UE staff & startup crew is
really pumped up for a run @ the
quite full load schedule.

Gordon Edison

A

SHUPPS SYSTEM IDENTIFICATION

| SYS Q | DESCRIPTION | SYS Q | DESCRIPTION | SYS Q | DESCRIPTION |
|-------|--|-------|------------------------------------|-------|------------------------------|
| EA Q | Compressed Air | NG Q | 480V AC System (Class) | RM M | Closed Circuit TV |
| EC M | Fire Protection | NH Q | 125V DC System | RJ M | Plant Computer |
| ED M | Domestic Water | NI Q | Instrument AC Power | RL M | Plant Annunciator |
| EE Q | Fuel Handling - Storage | PA Q | 13.8 KV System | RM Q | Main Control Board |
| EF Q | Crane, Hoists & Elevators | PB N | 4.16 KV System (Non-Class) | RP M | Process Sampling |
| EM M | Service Gas (CO ₂) | PC Q | 480V AC System (Non-Class) | SA M | Misc. Control Panels |
| EJ Q | Standby Diesel Engine | PJ N | 250V DC System | SB Q | Engineered Safety |
| ES Q | Chemical Storage & Handling | PK M | 125V DC System | SC Q | Fasture Actuation |
| LA M | Sanitary Drainage | PQ M | Uninterruptible AC Power | SD Q | Reactor Protection |
| LB M | Roof Drains | QA M | Normal Lighting & (120/208V Power) | SE Q | Reactor Instrumentation |
| LC M | Yard Drains | QB M | Standby Lighting AC | SF Q | A-va Radiation Monitoring |
| LD M | Chemical Waste | QC M | Emergency Lighting DC | SG Q | Reactor Control |
| LE M | Oil Waste | QD M | Telephone System | SH Q | Seismic Instrumentation |
| LF Q | Floor & Equipment Drains | QE M | Public Address System | SJ Q | Post Accident Monitoring |
| MA M | Main Generation | QF M | (Intercom) | SK M | Nuclear Sampling |
| MB M | Excitation and Voltage Regulation | QG M | Grounding (Power Block) | SL M | Plant Security |
| MR M | Startup or Reserve Transformer | QH M | Grounding (Power Block) | SM Q | Main Turbine Control |
| MS Q | 4.16 KV System (Class) | QJ M | Cathodic Protection | SN Q | Containment Isolation |
| MT Q | Standby Generation | QK M | Freeze Protection | SP Q | Process Radiation Monitoring |
| MF Q | Lead Seeding & Emergency Lead Sequencing | QL M | Meteorological Instrumentation | SR Q | In-core Neutron Monitoring |

SHUPPS SYSTEM IDENTIFICATION

| SYS Q DESCRIPTION | SYS Q DESCRIPTION | SYS Q DESCRIPTION |
|-------------------------------------|--|-----------------------------------|
| AB Q Main Steam | CD N Generator Seal Oil | SD Q ESSM Pumphouse |
| AC N Main Turbine | CE N Stator Cooling Water | SE N Turbine Building HVAC |
| AD N Condensate | CF N Lube Oil Storage, Transfer & Purification | SF N Fuel Building HVAC |
| AE Q Feedwater | CG N Condenser Air Removal | GG Q HVAC Handling Building |
| AF N Feedwater Heater | CH N Main Turbine Control Oil | GH N Radwaste Building HVAC |
| AG N Condensate & Drains Extraction | CI N Circulating Water | GJ Q Central Chilled Water |
| AL Q Auxiliary Feedwater | CJ N Service Water | GL Q Control Building HVAC |
| AM N Demineralized Water | CK N Closed Cooling Water | GM Q Diesel Building HVAC |
| AN N Storage & Transfer | CL Q Fuel Pool Cooling & Cleanup | GN Q Containment Cooling |
| AP N Condensate Transfer & Storage | CM Q Essential Service Water | GP Q Containment ILRT |
| AQ N Condensate and Feedwater | CN Q Component Cooling Water | GQ N Containment Atmos. Control |
| BB Q Reactor Addition | CO Q High Pressure Coolant Injection | GS Q Containment Hydrogen Control |
| BC Q Chemical and Volume Control | CP Q Accumulator Safety Injection | HT Q Containment Purge |
| BD Q Reactor Makeup Water | CQ N Auxiliary Steam Generator | HA Q Solid Radwaste |
| BE Q Steam Generator Blowdown | CR Q Auxiliary Turbines (Feedpump & Aux. F.P.) | HB Q Decontamination |
| BF N Steam Seals | CS N Plant Heating | HC Q Boron Recycle |
| CG N Main Turbine Lube Oil | CT N Central Chilled Water | HD N Secondary Waste System |
| CH N Generator Hydrogen and CO2 | | JE Q Auxiliary Oil & Transfer |
| | | JF N Emergency Fuel Oil |
| | | JG N Auxiliary Gas |

Pretest Retests

(out of 53)

DONE 1. Accumulator blowdown -

Inability to verify results

DONE 2. 4160 V Class IE system

Retest caused by redesign -- control wires had excessive voltage drop; had to modify system

3. Component Cooling Water -

Test results to be confirmed after NPT

- System is large & fragmented.
We're concerned that present test results may not be verifiable.

4. Diesel start test - Start in 13.5 seconds

- need circuit change to get to 10-12 seconds

Local Leak Rate Tests

Penetrations

Mechanical: Total 48

To go 13 - Includes
personnel, emergency
& equipment hatches

Electrical: Done - Expect sign off within
week

Do you want fire barrier data on
penetrations thru building walls other
than containment?

AS-built - Program working satisfactorily

- Ask resident for opinion of
how this is working.

11/1/62

November 15, 1983
ELM - 071

Mr. D.W. Capone:

UENE N-5 SCHEDULE

Please find attached Revision 3 of the UENE N-5 Schedule. The attached schedule is based on input from DIC and Bechtel thru 11/10/83.

Bechtel (Lee Rayfield) is to provide additional scheduling information on 11/17/83.

JAM

JAM/DLB/tk

T.H. McFarland
T.H. McFarland

cc: CCW
L. Rayfield (telecopy)
R. Bradford
J.H. Smith
R. Pitts
DWC
WHW
RLP
SEM
JRM
JRV
KWK
DLB
THM ✓
GLR
NEDF
E-0634
JAM

N-5 SCHEDULE

REV 3 DATE 11/14/83

| SYSTEM | AUG | SEPT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY |
|--------|----------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| KC | SCH SW US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| HD | SCH SW US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS NS | | | | | | | | | |
| LF | SCH SW US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GF | SCH SW US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GK | SCH SW US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GG | SCH SW SCH. 9-26 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GP | SCH SW SCH. 10-3 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| KJ | SCH SW US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| SJ | SCH SW US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GL | SCH SW SCH. 10-31-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GN | SCH SW SCH. 11-7-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GS | SCH SW SCH. 11-14-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| GT | SCH SW SCH. 11-21-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| JE | SCH SW SCH. 11-28-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| FC | SCH SW SCH. 12-5-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| BL | SCH SW SCH. 12-5-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |
| EC | SCH SW SCH. 12-9-83 US DC SS NS | | | | | | | | | |
| | ACT SW US DC SS | | | | | | | | | |

KEY: SW-DIA STOP WORK, US-RECEIPT OF UN-SIGNED STRESS, DC-DIC CONCLUSION, ENCE WITH US, SS-RECEIPT OF SIGNED STRESS, NS-SIGNING OF N5.

| SYSTEM | AUG | SEPT | OCT | NOV | | JAN | FEB | MAR | APR | MAY |
|--------|---------------------|------|-----|-----|--|----------|-------|--------------------------------------|-----|-----|
| BN | SCH SW SCH 12-13-83 | | | | | SS NS | | | | |
| | ACT | | | | | | | | | |
| HB | SCH SW SCH 12-16-83 | | | | | US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| AE | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| KA | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| EN | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| AB | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| BM | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| EP | SCH SW SCH 1-5-84 | | | | | US DC | SS NS | | | |
| | ACT | | SW | | | | | | | |
| AL | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| EJ | SCH SW SCH 1-12-84 | | | | | US DC | SS NS | | | |
| | ACT | | SW | | | | | | | |
| EM | SCH SW SCH 1-16-84 | | | | | US DC | SS NS | | | |
| | ACT | | SW | | | | | | | |
| EF | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| BB | SCH SW SCH 1-23-84 | | | | | US DC | SS NS | | | |
| | ACT | | SW | | | | | | | |
| EG | SCH | | | | | SW US DC | SS NS | | | |
| | ACT | | | | | | | | | |
| BG | SCH SW SCH 1-31-84 | | | | | US DC | SS NS | | | |
| | ACT | | SW | | | | | | | |
| KB | SCH | | | | | SW US DC | SS NS | NEW SYSTEM ISSUED BY BECHTEL 11-2-83 | | |
| | ACT | | | | | | | | | |
| | SCH | | | | | | | | | |
| | ACT | | | | | | | | | |

KEY: SW-DIC STOP WORK, US-RECEIPT OF UNSIGNED STRESS, DC-DIC CONCUR
 ENCE WITH US, SS-RECEIPT OF SIGNED STRESS, NS-SIGNING OF NS.

7/16/83

Bill
FYI Gordon
Edwards

Gordon,

Attached are two copies of the Callaway Preop
Test Schedule which is marked-up to include those
systems turned over to operations (Sys RFO's). Please
give a copy to Bill Lovelace.

Thanks.

Dave Shaffer

PRE-OPERATIONAL TEST SCHEDULE

UNION ELECTRIC COMPANY
CALLAWAY NUCLEAR PLANT

PAGE 1
PUN DATE 13SEP83 1057H

| DESCRIPTION | TEST TYPE | ACTUAL FINISH DATE | JTG APP | SYS RFO |
|--------------|--------------------------|--------------------------|------------|------------|
| ***** | | | | |
| CS-03EC02 | SFP LEAK TEST | 18MAY82 | X | EC-2 X |
| CS-03NE02 | NEW FUEL ELEVATOR | 30AUG82 | X | KE-1 X |
| CSPO4AC1-03 | FP 480V LIL WSTRAUX CL | 27SEP82 | X | PG-1 X |
| CS-03NE03 | FUEL WASTE INCINERATOR | 11OCT82 | X | KE-3 X |
| CS-03NE01 | SFP CRANE | 12OCT82 | X | KE-2 X |
| CS-04PA01 | 13.8 KV SYSTEM | 12OCT82 | X | MR-1 X |
| CSPO4AC1-09 | FP SYS FOR FUEL RECPT | 22OCT82 | X | KC-1 X |
| CS-04PA01 | 480 VOLT NON-CLASS IE | 22OCT82 | X | PG-2 X |
| CS-04QB01-B | ENERG LTR FUEL BLDG | 26OCT82 | X | QD-1 X |
| CS-04AE01 | GLUELL COOLING WATER | 1NOV82 | X | EB-1 X |
| CS-04PB01 | NON-CLASS IE 4160V | 1NOV82 | X | |
| CS-04PB01 | 13.8KV AC NON-CLASS IE | 1NOV82 | X | |
| CSPO4AC1-03 | WASTE PUMP 4160V SYS | 4NOV82 | X | |
| CS-03FC01 | SFP C-CL & CLEARUP | 30NOV82 | X | |
| CSPO4AC1-04 | WTP PUMP/NEUTRALYTE FEED | 30DEC82 | X | |
| CS-03NG01 | 480V CLASS IE SYSTEM | 22DEC82 | X | |
| CS-03NG01 | 13.8KV AC 10V CLASS IE | 20DEC82 | X | |
| CSPO4AC1-04 | WASTE PUMP 480V SYS | 20JAN83 | X | PG-3 X |
| CS-04AE01 | WASTE COOLING WATER | 15FEB83 | X | |
| CS-04AE01 | WASTE COOLING WATER | 15FEB83 | X | |
| CSPO4AC1-05 | WASTE WATER SYSTEMS | 22FEB83 | X | |
| CS-03NG01-01 | WASTE COOLING WATER | 23MAR83 | X | |
| CS-03NG01 | WASTE COOLING WATER | 24APR83 | X | |

PREOPERATIONAL TEST SCHEDULE

UNION ELECTRIC COMPANY
TALLAHASSEE NUCLEAR PLANT

PAGE 2
RUN DATE 13SEP83 1007HRS

| DESCRIPTION | TEST TYPE | ACTUAL FINISH DATE | JTG APP | SYS RFO |
|-----------------------------------|--------------|--------------------------|------------|------------|
| 05-000003 CHARGING SYSTEM | PT | 4APR83 | X | |
| 13-000001 ACCUMULATOR | PT | 12MAY83 | | |
| 13-000002 SEAL INJECTION | PT | 23MAY83 | X | |
| 17-000001 RCP INITIAL OPS | PT | 31MAY83 | X | |
| 15-000011 PRIMARY HYDRO | PT | 2JUN83 | X | |
| 13-000001 INSTRUMENT AC CLASS IE | PT | 14JUN83 | X | |
| 09-000001 INTEGRATED CNTRL LOGIC | PT | 16JUN83 | X | |
| 12-000001 CONDENSATE SYSTEM | PT | 11JUL83 | X | |
| 01-000001 EMERGENCY FUEL OIL SYS | PT | 22JUL83 | X | |
| 13-000001 RHR SYSTEM COLD | PT | 29JUL83 | | |
| 10-000001 CURREN PUMP & LOBE WTR | PT | 11AUG83 | | |
| 10-000001 4150 VOLT CLASS IE | PT | 11AUG83 | X | |
| 11-000002 PRESSURE RELIEF TANK | PT | 12AUG83 | X | |
| 15-000002 SAFETY INJ FLOW VERIF | PT | 15AUG83 | | |
| 14-000001 DIESEL GEN BLDG HVAC | PT | 19AUG83 | X | |
| 11-000001 CONDENSATE IN CHEN FEED | PT | 22AUG83 | | |
| 10-000001 COOLING WATER | PT | 23AUG83 | | |
| 10-000001 COOLING WATER | PT | 23AUG83 | | |
| 10-000001 COOLING WATER | PT | 23AUG83 | | |

SNUPPS SYSTEM IDENTIFICATION

| SYS | Q | DESCRIPTION | SYS | Q | DESCRIPTION | SYS | Q | DESCRIPTION |
|-----|---|---|-----|---|---|-----|---|---|
| AB | Q | Main Steam | EN | Q | Containment Spray | KS | Q | Chemical Storage & Handling |
| AC | N | Main Turbine | EP | Q | Accumulator Safety Injection | LA | N | Sanitary Drainage |
| AD | N | Condensate | FA | N | Auxiliary Steam Generator | LB | N | Roof Drains |
| AE | Q | Feedwater | FB | N | Auxiliary Steam | LC | N | Yard Drains |
| AF | N | Feedwater Heater Extraction & Drains | FC | Q | Auxiliary Turbines | LD | N | Chemical Waste |
| AK | N | Condensate Demineralizer | GA | N | Plant Heating | LE | N | Oily Waste |
| AL | Q | Auxiliary Feedwater | GB | N | Central Chilled Water | LF | Q | Floor & Equipment Drains |
| AN | N | Demineralized Water Storage & Transfer | GD | Q | ESSW Pumphouse HVAC Building | MA | N | Main Generation |
| AP | N | Condensate Transfer & Storage | GE | N | Turbine Building HVAC | MB | N | Excitation & Voltage Regulation |
| AQ | N | Condensate & Feedwater Chemical Addition | GF | N | Misc. Building HVAC | MR | N | Startup or Reserve Transformer |
| BB | Q | Reactor Coolant | GG | Q | Fuel Handling Building HVAC | NB | Q | 4160 VAC |
| BG | Q | Chemical & Volume Control | GH | N | Radwaste Building HVAC | NE | Q | Standby Generation |
| BL | Q | Reactor Makeup Water | GJ | Q | Essential Chilled Water | NF | Q | Load Shedding & Emergency Load Sequencing |
| BM | Q | Steam Generator Blowdown | GK | Q | Control Building HVAC | NG | Q | 480 VAC |
| BN | Q | Borated Refueling Water Storage | GL | Q | Auxiliary Building HVAC | NK | Q | 125 VDC |
| CA | N | Steam Seals | GM | Q | Diesel Building HVAC | NN | Q | Instrument AC Power |
| CB | N | Main Turbine Lube Oil | GN | Q | Containment Cooling | PA | Q | 13.8 KVAC |
| CC | N | Generator Hydrogen & CO ₂ | GP | Q | Containment ILRI | PB | N | 4160 VAC |
| CD | N | Generator Seal Oil | GR | N | Containment Atmos. Control | PG | N | 480 VAC |
| CE | N | Stator Cooling Water | GS | Q | Containment Hydrogen Control | PJ | N | 250 VDC |
| CF | N | Lube Oil Storage, Transfer & Purification | GT | Q | Containment Purge | PK | N | 125 VDC |
| CG | N | Condenser Air Removal | HA | Q | Gaseous Radwaste | PN | N | Instrument AC Power |
| CH | N | Main Control Turbine Oil | HB | Q | Liquid Radwaste | PQ | N | Uninterruptible AC Power |
| DA | N | Circulating Water | HC | Q | Solid Radwaste | QA | N | Normal Lighting & 120/208 V Power |
| EA | N | Service Water | HD | N | Decontamination | QB | N | Standby Lighting AC |
| EB | N | Closed Cooling Water | HE | N | Boron Recycle | QD | N | Emergency Lighting DC |
| EC | Q | Fuel Pool Cooling & Cleanup | HF | N | Secondary Waste System | QE | N | Telephone System |
| EF | Q | Essential Service Water | JA | N | Auxiliary Oil & Transfer | QF | N | Public Address System (Intercom) |
| EG | Q | Component Cooling Water | JE | Q | Emergency Fuel Oil | QG | N | Grounding (Power Block Grounding Grid) |
| EJ | Q | Residual Heat Removal | JH | N | Auxiliary Gas | QH | N | Cathodic Protection |
| EM | Q | High Pressure Coolant Injection | KA | Q | Compressed Air | QJ | N | Freeze Protection |
| | | | KC | N | Fire Protection | RD | N | Meteorological Instrumentation |
| | | | KD | N | Domestic Water | RH | N | Closed Circuit TV |
| | | | KE | Q | Fuel Handling, Storage & Reactor Vessel Service | RJ | N | Plant Computer |
| | | | KF | Q | Cranes, Hoists & Elevators | | | |
| | | | KH | N | Service Gas (CO ₂ -H ₂) | | | |
| | | | KJ | Q | Standby Diesel Engine | | | |

(cont.)

SNUPPS SYSTEM IDENTIFICATION

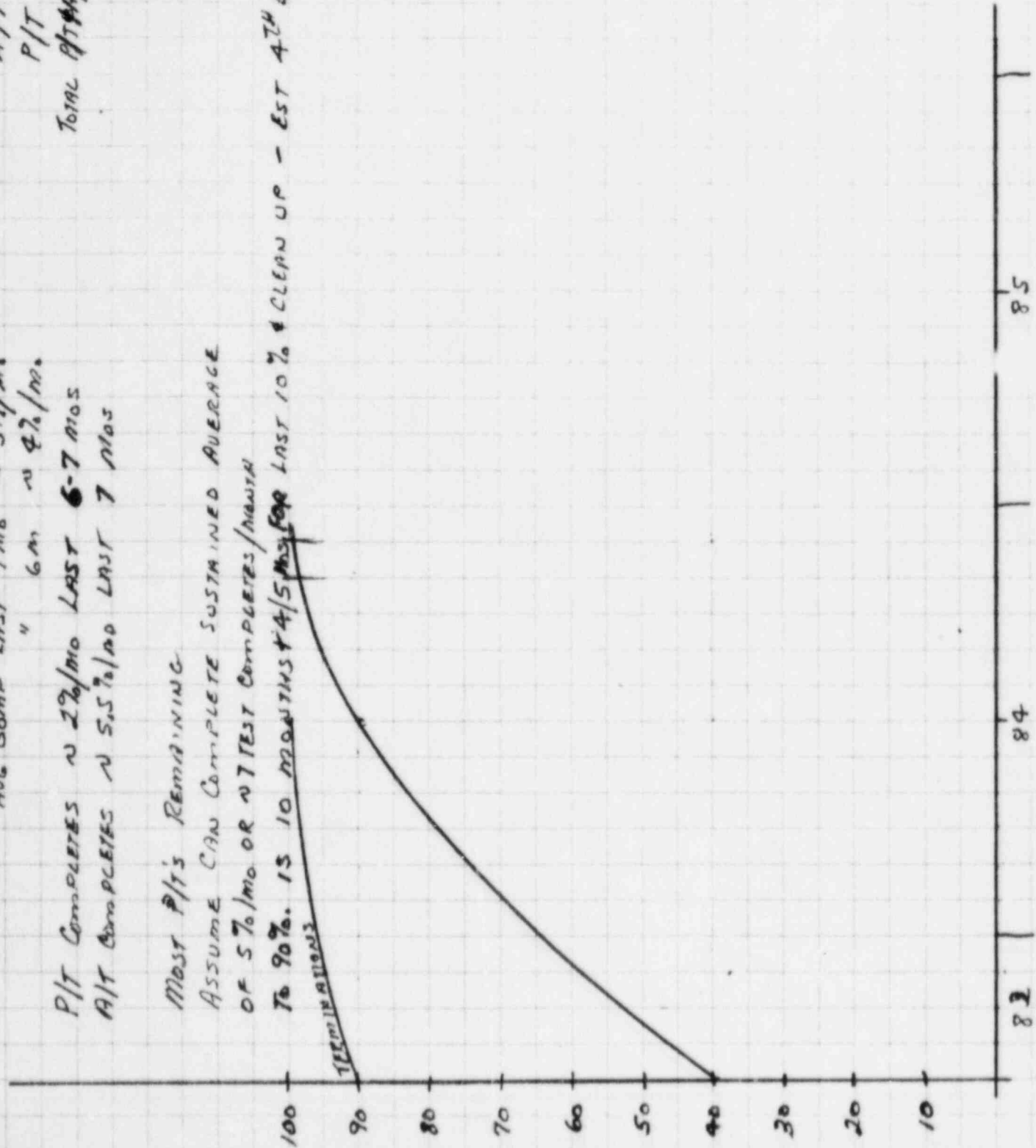
| SYS | Q | DESCRIPTION |
|-----|---|--|
| RK | N | Plant Annunciator |
| RL | Q | Main Control Board |
| RM | Q | Process Sampling |
| RP | N | Misc. Control Panels |
| SA | Q | Engineered Safety Feature Actuation |
| SB | Q | Reactor Protection |
| SC | Q | Reactor Instrumentation |
| SD | Q | Area Radiation Monitor- ing |
| SE | Q | Ex-core Neutron Monitoring |
| SF | Q | Reactor Control |
| SG | Q | Seismic Instrumentation |
| SH | Q | Post Accident Monitoring |
| SJ | Q | Nuclear Sampling |
| SK | N | Plant Security |
| SL | N | Main Turbine Control |
| SM | Q | Containment Isolation |
| SP | Q | Process Radiation Monitoring |
| SR | Q | In-Core Neutron Monitoring |

AVG COMP LAST 9 MO $\sim 3\%/MO$
 " " 6 MO $\sim 4\%/MO$
 P/T COMPLETES $\sim 2\%/MO$ LAST 6-7 MOS
 A/T COMPLETES $\sim 5.5\%/MO$ LAST 7 MOS

MOST P/T'S REMAINING
 ASSUME CAN COMPLETE SUSTAINED AVERAGE
 OF $5\%/MO$ OR ~ 7 TEST COMPLETES/MONTH

TO 90% IS 10 MONTHS + 4/5 MOS FOR LAST 10% & CLEAN UP - EST 4TH QTR '84 FL

TERMINATIONS



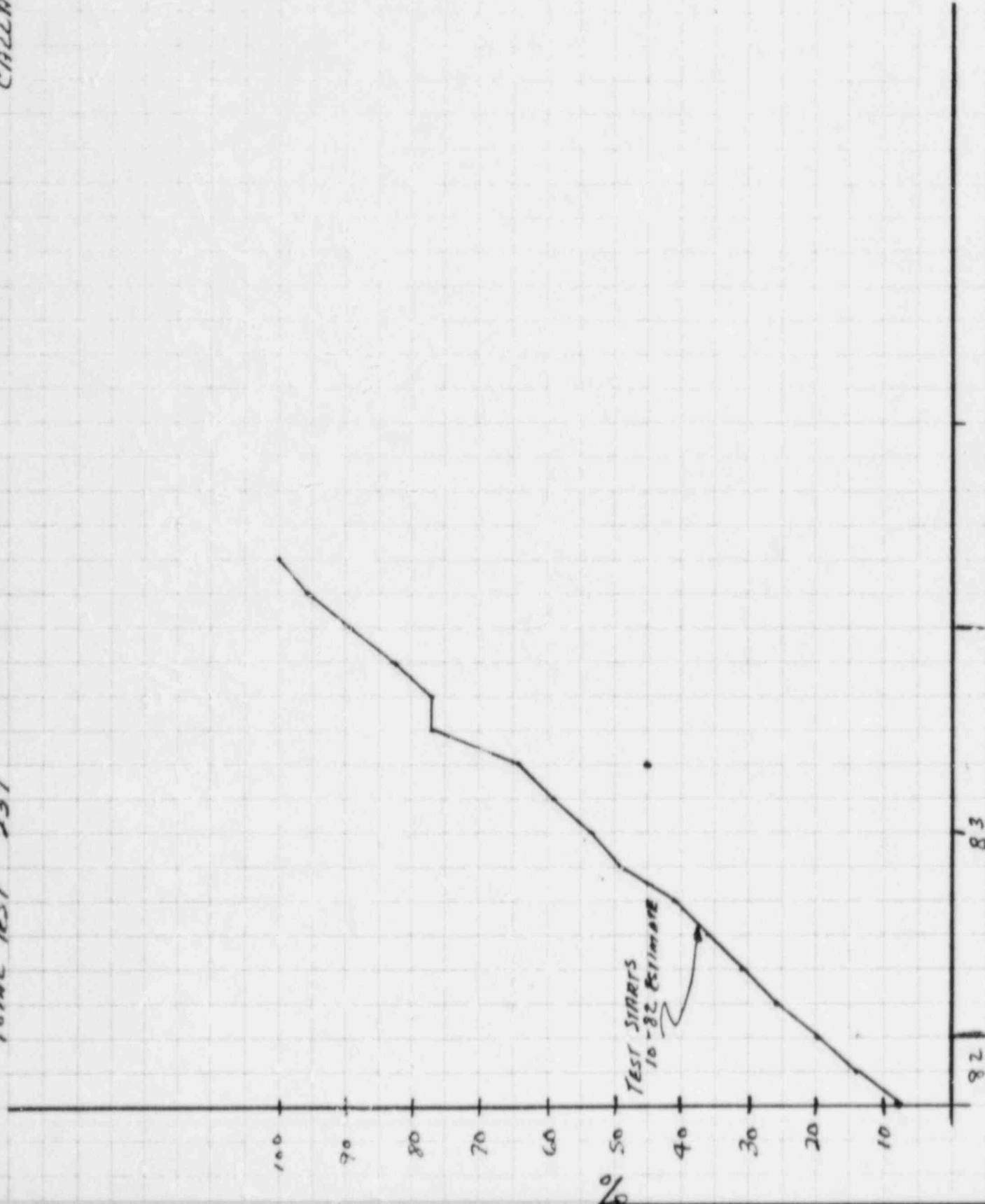
CALLAWAY 9-18-83
 A/T - 77 COMP - 47
 P/T - 143 COMP - 42
 TOTAL A/T A/T-220 COMP-89
 40% COMPLETE

- FY -

10-82

TOTAL TEST 237

CALL NUMBER 9-13-83



CALLAWAY 1
9-12-83

~~142~~
~~77~~
~~224~~

| | | | |
|-------|----|-----|-----|
| 10-82 | 18 | | 8 |
| 11 | 14 | 32 | 14 |
| 12 | 15 | 47 | 20 |
| 1-83 | 15 | 62 | 26 |
| 2 | 11 | 73 | 31 |
| 3 | 12 | 85 | 36 |
| 4 | 11 | 96 | 41 |
| 5 | 20 | 116 | 49 |
| 6 | 10 | 126 | 53 |
| 7 | 15 | 141 | 59 |
| 8 | 10 | 151 | 64 |
| 9 | 32 | 183 | 77 |
| 10 | — | 183 | 77 |
| 11 | 14 | 197 | 83 |
| 12 | 15 | 212 | 89 |
| 1-84 | 15 | 227 | 96 |
| 2 | 10 | 237 | 100 |

SYSTEM RELEASE FOR TEST REPORT

CALLAWAY NUCLEAR PROJECT UNIT #1

PAGE 1

RUN DATE 15OCT82 1230HRS

SORT BY DATE

S Y S T E M

RFT
REQUIRED
DATE

| | |
|--------------------------------------|------------|
| EMA-2 SAFETY INJECTION PMP'S & HDRS | 10/01/82 C |
| EMB BORON INJECTION | 10/09/82 C |
| EFD ESSENTIAL SERVICE WATER SYSTEM | 10/11/82 C |
| EPA ACCUMULATORS | 10/11/82 C |
| ABB MAIN STEAM STM LINES TO TURBINE | 10/15/82 |
| GGB FUEL BLDG EXH AIR & ABSORB UNITS | 10/15/82 C |
| KHB GAS TO FW & MS ISO VALVES | 10/15/82 |
| BGB-1 CENT CHG PMP & HEADER | 10/22/82 C |
| ABA-1 MAIN STEAM SG & STM LINES | 10/23/82 |
| AEB-2 FEEDWATER CHECKS TO S/G | 10/25/82 |
| BMA-1 BD PPG FOR 2ND HYDRO | 10/25/82 |
| QJG REACTOR MAKEUP WTR FREEZE PROT | 10/26/82 |
| BBA REACTOR COOLANT | 10/29/82 |
| QJF CONDENSATE WATER FREEZE PROT | 10/29/82 |
| SB-3 REACTOR PROTECTION | 10/29/82 |
| NF LOAD SHEDDING & EMER LOAD SEQ | 11/01/82 |
| SKC SECURITY DIESEL GENERATOR | 11/01/82 |
| SKD PROTECTED AREA LIGHTING | 11/01/82 |
| EGC CCW INSIDE REACTOR BLDG. | 11/04/82 |
| QJH BORATED REFUEL WTR FREEZE PROT | 11/05/82 |
| GED-1 TB PROCESS SAMPLING LAB HVAC | 11/09/82 |
| QGF ZONES 2 3 & RMU BLDG GRNDS | 11/09/82 |
| GM HVAC DIESEL GENERATOR BUILDING | 11/10/82 |

239
207
32
By 8/31/83
10 inputs
Total 232

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|------------------------------------|-------------------------|
| QAB ZNS 2 3 4 RMU BLDG 203/110VAC | 11/10/82 |
| QDW SEC DG EMERGENCY LIGHTING | 11/11/82 |
| BGC-1 CVCS POSITIVE DISPL PMP | 11/12/82 |
| GFD SITE ZONES 2 3 4 RMU BLDG | 11/12/82 |
| RM PROCESS SAMPLING | 11/15/82 |
| RZP MISC CNTRL PNLS SITE SWGR | 11/15/82 |
| SA-1 SAFEGUARDS STATUS PAVELS | 11/15/82 |
| QNB SEC DG BLDG WELDING RECEPT | 11/15/82 |
| DAC COOLING TOWER | 11/17/82 |
| PKC SITE SWGR BLDG 125VDC DIST | 11/17/82 |
| DD CWCCS | 11/18/82 |
| GFW SECURITY DIESEL GENERATOR BLDG | 11/18/82 |
| KCW SECURITY D.G. BLDG FIRE PROT | 11/18/82 |
| HBA LIQ RW RCS DRAIN TNKS & PUMPS | 11/19/82 |
| QAD SITE SWGR BLDG 208/110VAC DIST | 11/19/82 |
| KCR SITE SWITCHGEAR FIRE DETECTION | 11/22/82 |
| PGL SECURITY DG 480VAC DIST | 11/22/82 |
| QDR SWGR BLDG EMERGENCY LIGHTING | 11/23/82 |
| GD-2 ESW PUMPHOUSE HVAC BLDG | 11/24/82 |
| GLA AUX BLDG HVAC SUPPLY AIR UNIT | 11/29/82 |
| QGO S A F GROUNDING | 11/29/82 |
| PGP SITE SWITCHGEAR BLDG | 11/30/82 |
| BBB-2 RCS ELEC & RTD MANIFOLD | 12/01/82 |

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| END SI TST LN VLV TST&CHK VLV LK TST | 12/01/82 |
| FCD AUXILIARY FEEDWATER PUMP TURBINE | 12/01/82 |
| KHA-2 SERVICE GAS (HP NITROGEN) | 12/01/82 |
| QAE SEC DG 208/110VAC DIST | 12/03/82 |
| QDO S A F EMERGENCY LIGHTING | 12/03/82 |
| BGB-2 CVCS SEAL INJ & RETURN | 12/05/82 |
| QFO S A F PUBLIC ADDRESS SYS | 12/06/82 |
| LED MISC CONDENSATE DRAIN TANK & PM | 12/07/82 |
| QNO S A F WELDING RECEPTACLES | 12/07/82 |
| HEA RECYCLE HOLDUP TANK INLET | 12/08/82 |
| JEA EMERG FUEL OIL TO DIESEL GEN A | 12/08/82 |
| KJE STANDBY DIESEL-A LUBE OIL | 12/08/82 |
| QAO S A F 208/110VAC DIST | 12/09/82 |
| GFR HVAC SITE SWITCHGEAR BLDG | 12/10/82 |
| GHC RAD BLDG HVAC EXH FLTR ABS UNT | 12/13/82 |
| PGO S A F 480VAC DIST | 12/14/82 |
| GFO SECONDARY ACCESS FACILITY BLDG | 12/15/82 |
| GEB TB HVAC SUPPLY & UNIT HEATERS | 12/17/82 |
| KJI STANDBY DIESEL-B LUBE OIL | 12/20/82 |
| SKF SITE SECURITY ZONE 1 INPUT | 12/23/82 |
| NEA STANDBY DIESEL GENERATOR NE01 | 12/29/82 |
| BMA-2 BLOWDOWN FLASH TANK | 12/31/82 |
| SKE SECURITY VIDEO SYSTEM | 12/31/82 |

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|--------------------------------------|---------|
| SKBA TRNSTLS XRAY & BMB DET | 1/05/83 |
| SKBB NONVIDEO CNTRL ALARM STA | 1/05/83 |
| BGC-2 CVCS LETDOWN & LETDOWN DEMIN | 1/07/83 |
| GFA MISC BLDG HVAC SUPPLY & EXHAUST | 1/07/83 |
| KJC STANDBY DIESEL-A COOLING WATER | 1/07/83 |
| JEB EMERG FUEL OIL TO DIESEL GEN B | 1/10/83 |
| SKHE SEC PWR BLK SK-191 INPUTS | 1/10/83 |
| HCI SOL RW RESIN FILL | 1/11/83 |
| QFQ SEC BLDG PA & INTERCOM | 1/11/83 |
| NEB STNBY DIESEL GENERATOR NE02 | 1/12/83 |
| ACD TURB SUPERVISORY INSTRUMENTATION | 1/13/83 |
| KCG SECURITY BUILDING FIRE DETECTION | 1/13/83 |
| PKD SEC BLDG 125VDC DIST | 1/14/83 |
| QB STANBY LIGHT AC | 1/14/83 |
| SKAA COMP & NONVIDEO PORTION 2ND ALM | 1/14/83 |
| SKAB POWER BLOCK RMUS & DATA LINK | 1/14/83 |
| SKAC SITE RMUS & DATA LINK | 1/14/83 |
| SKGA SITE SECURITY ZONE 2 INPUT | 1/14/83 |
| SKGB SITE SECURITY ZONE 3 INPUT | 1/14/83 |
| SKGC SITE SECURITY ZONE 4 INPUT | 1/14/83 |
| KJG STANDBY DIESEL-B COOLING WATER | 1/17/83 |
| QAC SEC BLDG 208/110VAC DIST | 1/17/83 |
| HEB RECYCLE EVAPORATOR PMPS & DEMIN | 1/19/83 |

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| | |
|---------------------------------------|---------|
| KJA STANDBY DIESEL ENG #KKJ01A | 1/18/83 |
| KC3-3 FIRE PROTECTN MULTPLX KC273 | 1/19/83 |
| SKJ SEC BLDG 480VAC DIST | 1/19/83 |
| KCC SWGR RMS HALON FIRE PROTECTION | 1/20/83 |
| SKHF SEC PWR BLK SK-192 INPUTS | 1/20/83 |
| GLC AUX BLDG HVAC N EXH FNS&ABS UNT | 1/21/83 |
| KC9 TECH SUPPORT CENTER FIRE PROT | 1/21/83 |
| QDQ SEC BLDG EMERGENCY LIGHTING | 1/21/83 |
| QGC SEC BLDG GROUNDING | 1/21/83 |
| BGE EXCESS LETDOWN | 1/25/83 |
| SKHC SEC PWR BLK SK-073 INPUTS | 1/25/83 |
| GFQ SECURITY BLDG HVAC | 1/25/83 |
| SKHA SEC PWR BLK SK-071 INPUTS | 1/25/83 |
| KCH DIESEL ROOM FIRE PROTECTION | 1/28/83 |
| KJB STANDBY DIESEL ENGINE #KKJ01B | 1/29/83 |
| ABA-2 MAIN STEAM TO MSIV'S ELECTRICAL | 2/01/83 |
| SKHH SEC PWR BLK SK-194 INPUTS | 2/01/83 |
| KC4-3 FIRE PROTECTN MULTPLX KC274 | 2/03/83 |
| KC10 EMERG OPERATIONS FAC FIRE PROT | 2/04/83 |
| AEB-3 FEEDWATER TO SG ELECTRICAL | 2/09/83 |
| SA-2 SAFEGUARDS ACTUATION PANELS | 2/09/83 |
| DAA CIRC WAT PMPS, HDRS & MISC PPG | 2/11/83 |
| MB EXCITATION & VOLTAGE REGULATION | 2/11/83 |

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| BGD CVCS BORON THERMAL REGEN (BTRS) | 2/14/83 |
| KC7 SECONDARY ACCESS FAC FIRE PROT | 2/15/83 |
| EFE ESW COOLING TOWER | 2/15/83 |
| MAA MAIN GENERATOR | 2/15/83 |
| ACB MAIN STEAM REHEATERS | 2/18/83 |
| AFC LP HEATERS AND DRAINS | 2/21/83 |
| GTA CONTAINMENT SHUTDOWN PURGE AIR | 2/22/83 |
| GLD AUX BLDG HVAC PUMP ROOM COOLERS | 2/24/83 |
| GB CENTRAL CHILLED WATER | 2/25/83 |
| AFB HP HTRS & MOIST SEP DRAIN TANK | 2/28/83 |
| ENA CONTAINMENT SPRAY (LESS NOZZLES) | 3/01/83 |
| BMB SG BLWDN HEX FLTRS & SURGE TANK | 3/02/83 |
| KCS FIRE PROTECTION MULTIPLEX KC275 | 3/03/83 |
| GHA RAD BLDG HVAC SUPPLY AIR UNIT | 3/04/83 |
| KCE TURBINE BLDG FIRE PROTECTION | 3/07/83 |
| ALA AUXILIARY FEEDWATER SYSTEM | 3/08/83 |
| KHE GAS TO REACTOR COOLANT DRN TANK | 3/11/83 |
| GKG HYDROGEN DETECTORS | 3/14/83 |
| MAC MAIN XFMR | 3/14/83 |
| GNA CNTMT COOLING (LESS CRDM COOLNG) | 3/15/83 |
| GTB CONTAINMENT SHUTDOWN PURGE AIR | 3/16/83 |
| GED-2 TB HVAC CONDENSER AIR REMOVAL | 3/17/83 |
| GHX PUMPHOUSE CATHODIC PROTECTION | 3/18/83 |

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|--------------------------------------|-------------------------|
| ACC MAIN TURBINE CONTROL | 3/21/83 |
| HEC RECYCLE EVAPORATOR | 3/23/83 |
| QJA FREEZE PROTECTION SYSTEM | 3/29/83 |
| SKHG SEC PWR BLK SK-193 INPUTS | 4/01/83 |
| SN LOOSE PARTS MONITOR | 4/01/83 |
| GKE CTL BLDG ACC CTL & CNTG RM CLG | 4/04/83 |
| QFA PUBLIC ADDRESS SYSTEM | 4/04/83 |
| FBB AUXILIARY STEAM REBOILER | 4/05/83 |
| QHA POWER BLOCK CATHODIC PROTECTION | 4/07/83 |
| CCB H2/CO2 GEN CORE MON HYD ANALYSIS | 4/08/83 |
| FBC AUX STM TO EVAP & COND RECOV SYS | 4/08/83 |
| GKF CNT BLDG IE ELEC EQUIP RM CLNG | 4/08/83 |
| GKA CTL BLDG HVAC EXH FNS & SUPPLY | 4/12/83 |
| SFA ROD DRIVE MG SETS | 4/14/83 |
| BMC SG LAY-UP RECIRC SYSTEM | 4/18/83 |
| AGA FEEDWATER CHEMICAL ADDITION | 4/19/83 |
| BGF CVCS BORIC ACID BATCH & TRANSFER | 4/20/83 |
| QJC CHEM & VOL CNTRL FREEZE PROT | 4/21/83 |
| SFB REACTOR TRIP SWITCHGEAR | 4/21/83 |
| KCF AB & FW PMPRM & HOT MACH SHP FP | 4/22/83 |
| QFB MAINTENANCE JACK SYSTEMS | 4/25/83 |
| GKC CTL RM PRESS. FILTRTN & AC | 4/29/83 |
| HFC SEC LW EV CH ABS DEMIN DSCH PMPS | 4/29/83 |

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|--------------------------------------|---------|
| GKD CTL BLDG HVAC ACC CNTRL EXHAUST | 5/02/83 |
| GP CONTAINMENT ILRT | 5/03/83 |
| SE NUCLEAR INSTRUMENTATION | 5/05/83 |
| HCB SECONDARY S.R.S.T. & HEADER | 5/09/83 |
| GFB TMON ACC GAL CIRC AIR & UNT HTRS | 5/10/83 |
| GR CONTAINMENT ATMOSPHERE CONTROL | 5/10/83 |
| SKHB SEC PWR BLK SK-072 INPUTS | 5/10/83 |
| SKHD SEC PWR BLK SK-190 INPUTS | 5/10/83 |
| KDC PWR BLK #1 COMM CORR JOM WATER | 5/11/83 |
| HBB LIQ RW H/U & MON TKS & FD TKS | 5/13/83 |
| KCJ CONTROL BLDG FIRE PROTECTION | 5/15/83 |
| KCI REACTOR BLDG FIRE PROTECTION | 5/19/83 |
| LDC TURB BLDG SAMPLE LAB SINK DRNS | 5/19/83 |
| SFC DIGITAL ROD POSITION INDICATION | 5/19/83 |
| QJB SAFETY INJECTION FREEZE PROT | 5/20/83 |
| KHC HYDROGEN GAS TO GEN & VCT | 5/24/83 |
| KDG TURBINE BUILDING DOMESTIC WATER | 5/30/83 |
| KDI RADWASTE BLDG DOMESTIC WATER | 5/30/83 |
| BBD INCORE THERMOCOUPLES | 6/01/83 |
| HCF SOL RW SEC EVAP BOTTOMS TANK | 6/01/83 |
| KCL RADWASTE BLDG FIRE PROTECTION | 6/03/83 |
| GNB CONTAINMENT CROM COOLING | 6/05/83 |
| HBF PACKING LEAKOFF TO RCJT | 6/10/83 |

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|--------------------------------------|---------|
| SJA AUX BLDG SAMPLE STATION | 6/10/83 |
| HAB WSTE GAS COMPRSR & RECOMBRS | 6/13/83 |
| SFD ROD CONTROL SYSTEM | 6/15/83 |
| HAA GASEOUS RADWST LESS COMP & RECOM | 6/17/83 |
| SP PROCESS RADIATION MONITORING | 6/20/83 |
| ENB CONTAINMENT SPRAY (NOZZLES) | 6/27/83 |
| SM CONTAINMENT ISOLATION | 6/29/83 |
| QJJ ESSENTIAL SVCE WTR FREEZE PROT | 7/11/83 |
| HCE SOL RW PRI EVAP BOTTOMS TANK | 7/12/83 |
| ECD REFUELING POOL | 7/15/83 |
| HBC LIQ RW EVAP & COND TANK | 7/19/83 |
| QTU PERM ROAD LTG NR WTR TRTMT PLNT | 7/21/83 |
| QTX PERM ROAD LTG NR CIRC WATER | 7/21/83 |
| HBD LIQ RW CHEMICAL DRAIN TANK | 8/01/83 |
| LEB OILY WASTE CONTROL DG BLDG | 8/01/83 |
| KEB FH-CONTAINMENT VESSEL SIDE | 8/02/83 |
| QJD CAUSTIC SODA FREEZE PROTECTION | 8/05/83 |
| HBE LIQ RW LAUNDRY & HOT SHOWER | 8/08/83 |
| HCG SOL RW ACID & CAUSTIC ADDITION | 8/11/83 |
| RD METEOROLOGICAL INSTRUMENTATION | 8/11/83 |
| SDA AREA RADIATION MONITOR FUEL BLDG | 8/12/83 |
| HCA PRIMARY S.R.S.T. & HEADER | 8/19/83 |
| LFA AUX BLDG FLOOR & EQUIP DRAINS | 9/23/83 |

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| SDD AREA RADIATION MONITOR CONT BLDG | 8/25/83 |
| HCH SOL RW DRMG & DECA STA & CMPCTR | 8/25/83 |
| SH POST ACCIDENT MONITORING | 8/29/83 |
| LEF OILY WASTE SUMP PUMPS | 8/31/83 |
| SG SEISMIC INSTRUMENTATION | 8/31/83 |
| KFA CRANES HOISTS ELVTR PWR BLOCK | 9/01/83 |
| SRA INCORE FLUX MAPPING SYSTEM | 9/01/83 |
| HOA HOT MACH SHP AREA DECON STATION | 9/09/83 |
| QNA MISC WELDING RECP POWER BLOCK | 9/12/83 |
| LFB RW BLDG EQUIP DRN SUMPS & PUMPS | 9/16/83 |
| SDC AREA RADIATION MONITOR AUX BLDG | 9/16/83 |
| SDE AREA RAD MON RAD WASTE BLDG | 9/16/83 |
| SDB AREA RADIATION MONITOR REACTOR B | 9/20/83 |
| SJB RADWASTE SAMPLE STATION | 9/20/83 |
| SJC POST ACCIDENT SAMPLING | 9/20/83 |
| LFF HOT MACHINE SHOP DRAINS & SUMPS | 9/29/83 |
| LFE CNTNMT BLDG SUMPS & PUMPS | 10/03/83 |
| QE TELEPHONE SYSTEM | 10/04/83 |
| QJE RADWASTE FREEZE PROTECTION | 10/04/83 |
| GSB HYDROGEN PURGE&HYDROGEN ANALYZER | 10/07/83 |
| LDA DETERGENT WASTE SYSTEM | 10/12/83 |
| LA SANITARY DRAINAGE | 10/14/83 |
| QHT CATHODIC PROTECTION | 10/17/83 |

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GSA ELECTRIC HYDROGEN RECOMBIVER

10/19/83

LFD CTL BLDG FLOOR & EQUIP DRN SUMP

10/24/83

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|---------------------------------------|-------------------------|
| ABA-1 MAIN STEAM SG & STM LINES | 10/25/82 |
| ABA-2 MAIN STEAM TO MSIV'S ELECTRICAL | 2/01/83 |
| ABB MAIN STEAM STM LINES TO TURBINE | 10/15/82 |
| ACB MAIN STEAM REHEATERS | 2/19/83 |
| ACC MAIN TURBINE CONTROL | 3/21/83 |
| ACD TURB SUPERVISORY INSTRUMENTATION | 1/13/83 |
| AEB-2 FEEDWATER CHECKS TO S/G | 10/25/82 |
| AEB-3 FEEDWATER TO SG ELECTRICAL | 2/09/83 |
| AFB HP HTRS & MOIST SEP DRAIN TANK | 2/23/83 |
| AFC LP HEATERS AND DRAINS | 2/21/83 |
| ALA AUXILIARY FEEDWATER SYSTEM | 3/08/83 |
| AQA FEEDWATER CHEMICAL ADDITION | 4/19/83 |
| BBA REACTOR COOLANT | 10/29/82 |
| BBB-2 RCS ELEC & RTD MANIFOLD | 12/01/82 |
| BBD INCORE THERMOCOUPLES | 6/01/83 |
| BGB-1 CENT CHG PMP & HEADER | 10/22/82 |
| BGB-2 CVCS SEAL INJ & RETRN | 12/05/82 |
| BGC-1 CVCS POSITIVE DISPL PMP | 11/12/82 |
| BGC-2 CVCS LETDOWN & LETDOWN DEMIN | 1/07/83 |
| BGD CVCS BORON THERMAL REGEN (BTRS) | 2/14/83 |
| BGE EXCESS LETDOWN | 1/25/83 |
| BGF CVCS BORIC ACID BATCH & TRANSFER | 4/23/83 |
| BMA-2 BLOWDOWN FLASH TANK | 12/31/82 |

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| S Y S T E M | RFT REQUIRED DATE |
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| BMA-1 BD PPG FOR 2ND HYDRO | 10/25/82 |
| BMB SG BLWDN HEX FLTRS & SURGE TANK | 3/02/83 |
| BMC SG LAY-UP RECIRC SYSTEM | 4/13/83 |
| CCB H2/CO2 GEN CORE MON HYD ANALYSIS | 4/08/83 |
| DAA CIRC WAT PMPS, HORS & MISC PPG | 2/11/83 |
| DAC COOLING TOWER | 11/17/82 |
| DD CWCCS | 11/18/82 |
| ECD REFUELING POOL | 7/13/83 |
| EFD ESSENTIAL SERVICE WATER SYSTEM | 10/11/82 |
| EFE ESW COOLING TOWER | 2/16/83 |
| EGC CCW INSIDE REACTOR BLDG. | 11/04/82 |
| EMA-2 SAFETY INJECTION PMPS & HORS | 10/01/82 |
| EMB BORON INJECTION | 10/08/82 |
| END SI TST LN VLV TST&CHK VLV LK TST | 12/01/82 |
| ENA CONTAINMENT SPRAY (LESS NOZZLES) | 3/01/83 |
| ENB CONTAINMENT SPRAY (NOZZLES) | 6/27/83 |
| EPA ACCUMULATORS | 10/11/82 |
| FBB AUXILIARY STEAM REBOILER | 4/05/83 |
| FBC AUX STM TO EVAP & COND RECOV SYS | 4/08/83 |
| FCD AUXILIARY FEEDWATER PUMP TURBINE | 12/01/82 |
| GB CENTRAL CHILLED WATER | 2/25/83 |
| GD-2 ESW PUMPHOUSE HVAC BLDG | 11/24/82 |
| GEB TB HVAC SUPPLY & UNIT HEATERS | 12/17/82 |

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| GED-2 TB HVAC CONDENSER AIR REMOVAL | 3/17/83 |
| GED-1 TB PROCESS SAMPLING LAB HVAC | 11/09/82 |
| GFA MISC BLDG HVAC SUPPLY & EXHAUST | 1/07/83 |
| GFB TNDN ACC GAL CIRC AIR & UNT HTRS | 5/10/83 |
| GFD SITE ZONES 2 3 4 RMU BLDG | 11/12/82 |
| GFO SECONDARY ACCESS FACILITY BLDG | 12/16/82 |
| GFQ SECURITY BLDG HVAC | 1/26/83 |
| GFR HVAC SITE SWITCHGEAR BLDG | 12/10/82 |
| GFW SECURITY DIESEL GENERATOR BLDG | 11/18/82 |
| GGB FUEL BLDG EXH AIR & ABSORB UNITS | 10/15/82 |
| GHA RAD BLDG HVAC SUPPLY AIR UNIT | 3/04/83 |
| GHC RAD BLDG HVAC EXH FLTR ABS UNT | 12/13/82 |
| GKA CTL BLDG HVAC EXH FNS & SUPPLY | 4/12/83 |
| GKC CTL RM PRESS, FILTRTN & AC | 4/29/83 |
| GKD CTL BLDG HVAC ACC CNTRL EXHAUST | 5/02/83 |
| GKE CTL BLDG ACC CTL & CNTG RM CLG | 4/04/83 |
| GKF CNT BLDG IE ELEC EQUIP RM CLNG | 4/08/83 |
| GKG HYDROGEN DETECTORS | 3/14/83 |
| GLA AUX BLDG HVAC SUPPLY AIR UNIT | 11/29/82 |
| GLC AUX BLDG HVAC N EXH FNS&ABS UNT | 1/21/83 |
| GLD AUX BLDG HVAC PUMP ROOM COOLERS | 2/24/83 |
| GM HVAC DIESEL GENERATOR BUILDING | 11/10/82 |
| GNA CNTMT COOLING (LESS CROM COOLNG) | 3/13/83 |

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| GNB CONTAINMENT CROM COOLING | 6/06/83 |
| GP CONTAINMENT ILRT | 5/03/83 |
| GR CONTAINMENT ATMOSPHERE CONTROL | 5/10/83 |
| GSA ELECTRIC HYDROGEN RECOMBIVER | 10/19/83 |
| GSB HYDROGEN PURGE&HYDROGEN ANALYZER | 10/07/83 |
| GTA CONTAINMENT SHUTDOWN PURGE AIR | 2/22/83 |
| GTB CONTAINMENT SHUTDOWN PURGE AIR | 3/16/83 |
| HAA GASEOUS RADYST LESS COMP & RECOM | 6/17/83 |
| HAB WSTE GAS COMPRSRs & RECOMBNSRS | 6/13/83 |
| HBA LIQ RW RCS DRAIN TNKS & PUMPS | 11/19/82 |
| HBB LIQ RW H/U & MON TKS & FD TKS | 5/13/83 |
| HBC LIQ RW EVAP & COND TANK | 7/19/83 |
| HBD LIQ RW CHEMICAL DRAIN TANK | 8/01/83 |
| HBE LIQ RW LAUNDRY & HOT SHOWER | 8/08/83 |
| HBF PACKING LEAKOFF TO RCOT | 6/10/83 |
| HCA PRIMARY S.R.S.T. & HEADER | 8/19/83 |
| HCB SECONDARY S.R.S.T. & HEADER | 5/09/83 |
| HCE SOL RW PRI EVAP BOTTOMS TANK | 7/12/83 |
| HCF SOL RW SEC EVAP BOTTOMS TANK | 6/01/83 |
| HCG SOL RW ACID & CAUSTIC ADDITION | 9/11/83 |
| HCH SOL RW DRMG & DECA STA & CMPCTR | 9/26/83 |
| HCI SOL RW RESIN FILL | 1/11/83 |
| HDA HOT MACH SHP AREA DECJN STATION | 9/08/83 |

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| S Y S T E M | RFT REQUIRED DATE |
|--------------------------------------|-------------------------|
| HEA RECYCLE HOLDUP TANK INLET | 12/08/82 |
| HEB RECYCLE EVAPORATOR PMPS & DEMIN | 1/19/83 |
| HEC RECYCLE EVAPORATOR | 3/23/83 |
| HFC SEC LW EV CH ABS DEMIN DSCH PMPS | 4/29/83 |
| JEA EMERG FUEL OIL TO DIESEL GEN A | 12/08/82 |
| JEB EMERG FUEL OIL TO DIESEL GEN B | 1/13/83 |
| KCC SWGR RMS HALON FIRE PROTECTION | 1/23/83 |
| KCE TURBINE BLDG FIRE PROTECTION | 3/07/83 |
| KCF AB & FW PMPRM & HOT MACH SHP FP | 4/22/83 |
| KCH DIESEL ROOM FIRE PROTECTION | 1/29/83 |
| KCI REACTOR BLDG FIRE PROTECTION | 5/19/83 |
| KCJ CONTROL BLDG FIRE PROTECTION | 5/16/83 |
| KCL RADWASTE BLDG FIRE PROTECTION | 6/03/83 |
| KCG SECURITY BUILDING FIRE DETECTION | 1/13/83 |
| KCR SITE SWITCHGEAR FIRE DETECTION | 11/22/82 |
| KCW SECURITY D.G. BLDG FIRE PROT | 11/18/82 |
| KC3-3 FIRE PROTECTN MULTPLX KC273 | 1/19/83 |
| KC4-3 FIRE PROTECTN MULTPLX KC274 | 2/03/83 |
| KC5 FIRE PROTECTION MULTIPLEX KC275 | 3/03/83 |
| KC7 SECONDARY ACCESS FAC FIRE PROT | 2/15/83 |
| KC9 TECH SUPPORT CENTER FIRE PROT | 1/21/83 |
| KC10 EMERG OPERATIONS FAC FIRE PROT | 2/04/83 |
| KDC PWR BLK #1 COMM CORR JOM WATER | 5/11/83 |

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SORT BY SYSTEM

| S Y S T E M | RFT REQUIRED DATE |
|-------------------------------------|-------------------------|
| KDG TURBINE BUILDING DOMESTIC WATER | 5/30/83 |
| KDI RADWASTE BLDG DOMESTIC WATER | 5/30/83 |
| KEB FH-CONTAINMENT VESSEL SIDE | 8/02/83 |
| KFA CRANES HOISTS ELVTR PWR BLOCK | 9/01/83 |
| KHA-2 SERVICE GAS (HP NITROGEN) | 12/01/82 |
| KHB GAS TO FW & MS ISO VALVES | 10/15/82 |
| KHC HYDROGEN GAS TO GEN & VCT | 5/24/83 |
| KHE GAS TO REACTOR COOLANT DRN TANK | 3/11/83 |
| KJA STANDBY DIESEL ENG #KKJ01A | 1/19/83 |
| KJB STANDBY DIESEL ENGINE #KKJ01B | 1/29/83 |
| KJC STANDBY DIESEL-A COOLING WATER | 1/07/83 |
| KJE STANDBY DIESEL-A LUBE OIL | 12/09/82 |
| KJG STANDBY DIESEL-B COOLING WATER | 1/17/83 |
| KJI STANDBY DIESEL-B LUBE OIL | 12/20/82 |
| LA SANITARY DRAINAGE | 10/14/83 |
| LDA DETERGENT WASTE SYSTEM | 10/12/83 |
| LDC TURB BLDG SAMPLE LAB SINK DRNS | 5/19/83 |
| LEB OILY WASTE CONTROL DG BLDG | 8/01/83 |
| LED MISC CONDENSATE DRAIN TANK & PH | 12/07/82 |
| LEF OILY WASTE SUMP PUMPS | 8/31/83 |
| LFA AUX BLDG FLOOR & EQUIP DRAINS | 8/23/83 |
| LFB RW BLDG EQUIP DRN SUMPS & PUMPS | 9/16/83 |
| LFD CTL BLDG FLOOR & EQUIP DRN SUMP | 10/24/83 |

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SORT BY SYSTEM

| S Y S T E M | RFT REQUIRED DATE |
|-------------------------------------|-------------------------|
| LFE CNTNMT BLDG SUMPS & PUMPS | 10/03/83 |
| LFF HOT MACHINE SHOP DRAINS & SUMPS | 9/28/83 |
| MAA MAIN GENERATOR | 2/16/83 |
| MAC MAIN XFMR | 3/14/83 |
| MB EXCITATION & VOLTAGE REGULATION | 2/11/83 |
| NEA STNBY DIESEL GENERATOR NE01 | 12/29/82 |
| NEB STNBY DIESEL GENERATOR NE02 | 1/12/83 |
| NF LOAD SHEDDING & EMER LOAD SEQ | 11/01/82 |
| P6L SECURITY DG 480VAC DIST | 11/22/82 |
| P60 S A F 480VAC DIST | 12/14/82 |
| P6P SITE SWITCHGEAR BLDG | 11/30/82 |
| PKC SITE SWGR BLDG 125VDC DIST | 11/17/82 |
| PKD SEC BLDG 125VDC DIST | 1/14/83 |
| QAB ZNS 2 3 + RMU BLDG 208/110VAC | 11/10/82 |
| QAC SEC BLDG 208/110VAC DIST | 1/17/83 |
| QAD SITE SWGR BLDG 208/110VAC DIST | 11/19/82 |
| QAE SEC DG 208/110VAC DIST | 12/03/82 |
| QAO S A F 208/110VAC DIST | 12/09/82 |
| QB STANBY LIGHT AC | 1/14/83 |
| QDU S A F EMERGENCY LIGHTING | 12/03/82 |
| QDQ SEC BLDG EMERGENCY LIGHTING | 1/21/83 |
| QDR SWGR BLDG EMERGENCY LIGHTING | 11/23/82 |
| QDW SEC DG EMERGENCY LIGHTING | 11/11/82 |

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SORT BY SYSTEM

| S Y S T E M | RFT REQUIRED DATE |
|-------------------------------------|-------------------------|
| QE TELEPHONE SYSTEM | 10/04/83 |
| QFA PUBLIC ADDRESS SYSTEM | 4/04/83 |
| QFB MAINTENANCE JACK SYSTEMS | 4/25/83 |
| QFO S A F PUBLIC ADDRESS SYS | 12/06/82 |
| QFG SEC BLDG PA & INTERCOM | 1/11/83 |
| QGC SEC BLDG GROUNDING | 1/21/83 |
| QGF ZONES 2 3 4 RMU BLDG GRNDG | 11/09/82 |
| QGO S A F GROUNDING | 11/29/82 |
| QHA POWER BLOCK CATHODIC PROTECTION | 4/07/83 |
| QHT CATHODIC PROTECTION | 10/17/83 |
| QHX PUMPHOUSE CATHODIC PROTECTION | 3/13/83 |
| QJA FREEZE PROTECTION SYSTEM | 3/29/83 |
| QJB SAFETY INJECTION FREEZE PROT | 5/20/83 |
| QJC CHEM & VOL CNTRL FREEZE PROT | 4/21/83 |
| QJD CAUSTIC SODA FREEZE PROTECTION | 8/05/83 |
| QJE RADWASTE FREEZE PROTECTION | 10/04/83 |
| QJF CONDENSATE WATER FREEZE PROT | 10/29/82 |
| QJG REACTOR MAKEUP WTR FREEZE PROT | 10/26/82 |
| QJH BORATED REFUEL WTR FREEZE PROT | 11/05/82 |
| QJJ ESSENTIAL SVCE WTR FREEZE PROT | 7/11/83 |
| QNA MISC WELDING RECP POWER BLOCK | 9/12/83 |
| QNB SEC DG BLDG WELDING RECEPT | 11/16/82 |
| QNO S A F WELDING RECEPTACLES | 12/07/82 |

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SORT BY SYSTEM

| S Y S T E M | RFT REQUIRED DATE |
|--------------------------------------|-------------------------|
| QTU PERM ROAD LTG NR WTR TRTMT PLVT | 7/21/83 |
| QTX PERM ROAD LTG NR CIRC WATER | 7/21/83 |
| RD METEOROLOGICAL INSTRUMENTATION | 8/11/83 |
| RM PROCESS SAMPLING | 11/15/82 |
| RZP MISC CNTRL PNLS SITE SWGR | 11/15/82 |
| SA-1 SAFEGUARDS STATUS PANELS | 11/15/82 |
| SA-2 SAFEGUARDS ACTUATION PANELS | 2/09/83 |
| SB-3 REACTOR PROTECTION | 10/29/82 |
| SDA AREA RADIATION MONITOR FUEL BLDG | 8/12/83 |
| SDB AREA RADIATION MONITOR REACTOR B | 9/20/83 |
| SOC AREA RADIATION MONITOR AUX BLDG | 9/15/83 |
| SOD AREA RADIATION MONITOR CONT BLDG | 8/25/83 |
| SDE AREA RAD MON RAD WASTE BLDG | 9/15/83 |
| SE NUCLEAR INSTRUMENTATION | 5/06/83 |
| SFA ROD DRIVE MG SETS | 4/14/83 |
| SFB REACTOR TRIP SWITCHGEAR | 4/21/83 |
| SFC DIGITAL ROD POSITION INDICATION | 5/19/83 |
| SFD ROD CONTROL SYSTEM | 6/15/83 |
| SG SEISMIC INSTRUMENTATION | 8/31/83 |
| SH POST ACCIDENT MONITORING | 8/29/83 |
| SJA AUX BLDG SAMPLE STATION | 6/10/83 |
| SJB RADWASTE SAMPLE STATION | 9/20/83 |
| SJC POST ACCIDENT SAMPLING | 9/20/83 |

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SORT BY SYSTEM

| S Y S T E M | RFT REQUIRED DATE |
|--------------------------------------|-------------------------|
| SKAA COMP & NONVIDEO PORTION 2ND ALM | 1/14/83 |
| SKAB POWER BLOCK RMUS & DATA LINK | 1/14/83 |
| SKAC SITE RMUS & DATA LINK | 1/14/83 |
| SKBA TRNSTLS XRAY & BMB DET | 1/03/83 |
| SKBB NONVIDEO CNTRL ALARM STA | 1/05/83 |
| SKC SECURITY DIESEL GENERATOR | 11/01/82 |
| SKD PROTECTED AREA LIGHTING | 11/01/82 |
| SKE SECURITY VIDEO SYSTEM | 12/31/82 |
| SKF SITE SECURITY ZONE 1 INPUT | 12/23/82 |
| SKGA SITE SECURITY ZONE 2 INPUT | 1/14/83 |
| SKGB SITE SECURITY ZONE 3 INPUT | 1/14/83 |
| SKGC SITE SECURITY ZONE 4 INPUT | 1/14/83 |
| SKHA SEC PWR BLK SK-071 INPUTS | 1/25/83 |
| SKHB SEC PWR BLK SK-072 INPUTS | 5/10/83 |
| SKHC SEC PWR BLK SK-073 INPUTS | 1/25/83 |
| SKHD SEC PWR BLK SK-190 INPUTS | 5/10/83 |
| SKHE SEC PWR BLK SK-191 INPUTS | 1/10/83 |
| SKHF SEC PWR BLK SK-192 INPUTS | 1/20/83 |
| SKHG SEC PWR BLK SK-193 INPUTS | 4/01/83 |
| SKHH SEC PWR BLK SK-194 INPUTS | 2/01/83 |
| SKJ SEC BLDG 480VAC DIST | 1/19/83 |
| SM CONTAINMENT ISOLATION | 6/29/83 |
| SN LOOSE PARTS MONITOR | 4/01/83 |

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SORT BY SYSTEM

S Y S T E M

RFT
REQUIRED
DATE

SP PROCESS RADIATION MONITORING

5/23/83

SRA INCORE FLUX MAPPING SYSTEM

9/01/83