

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 101 MARIETTA STREET, N.W., SUITE 2900 ATLANTA, GEORGIA 30323-0199

January 14, 1997

MEMORANDUM TO:

FROM:

SUBJECT:

MINUTES OF THE CRYSTAL RIVER RESTART PANEL FOURTH MEETING HELD JANUARY 8, 1997

The Crystal River Restart Panel met at the Crystal River site on January 8, 1997. The following Panel members and others were present:

Johns P. Jaudon, Director Division of Reactor Safety

File.

Panel Members:

Johns P. Jaudon, RII, Chairman Frederick J. Hebdon, NRR, Vice Chairman Kerry D. Landis, RII Stephen J. Cahill, RII Laksminaras Raghaven, NRR

Others:

Robert P. Schin, RII

The Panel noted that the Plant status was cold shutdown (Mode 5) with a steam bubble in the pressurizer. The Senior Resident Inspector advised that there was work in progress on some valves and that a Train (A) outage was scheduled to begin January 13, 1997.

The Chairman pointed out that the licensee had announced several personnel selections, these were:

Roy Anderson as Senior Vice President; he is expected to be onsite in late January and relieve March 3, 1997.

John Cowan as Site Vice President; he is expected onsite by early February 1997.

Dave Kunsemiller as Director of Site Support; he is on site and should relieve by the end of January 1997.

John Holden as Director of Engineering; the onsite date was not known by the board.

The Panel discussed Licensee Event Report 96-22, which reported a potential design issue that potentially could result in the simultaneous failure of circuits both in the control room and the remote shutdown facility. It was reported that the licensee had determined to conduct a broader review of Appendix R issues because of this potential design issues. The NRR Panel members noted that there was a restart item to resolve some Appendix R exemption requests and that action on these requests chould be coordinated with review of the licensee's review to assure that the total context of Appendix R issues was understood.





The Restart Panel noted that FPC was still developing recovery milestones and that the scope of the design changes was not completely finalized in some areas.

The c was a lengthy discussion on whether or not the licensee's plan to review past 10 CFR 50.59 reviews of modifications and to develop time lines for the Emergency Diesel Generation system, the Emergency Feedwater system, Building Spray system, Low Pressure Injection system and High Pressure injection system and to perform a failure modes analysis of DC power would get the licensee to a point to conclude that the safety systems at Crystal River met their design basis requirements. The Restart Panel decided to discuss this with the licensee at the public meeting scheduled for January 9 onsite in order to assure that they understood the Panel's concerns in this area. <sup>1</sup>

The Restart check list of open items was reviewed. Findings from recent reports were added and characterized. It was further determined that duplicate items, coded as Non Restart because the item was coded as Restart under another classification, should be further coded to show that there was another item on the same subject that was coded restart. This was accomplished and the revised Restart Open Item checklist is enclosed (Attachment A).

The NRR representatives discussed the lack of technical s[ecfications for Low Temperature Overpressure Protection, which is already coded as a Restart item. It was noted that NRR has not yet sent correspondence to the licensee on this subject, although the licensee is aware that the item in on the Restart Open Item Checklist.

The need to schedule available inspection resources effectively was discussed. The Panel decided that the inspection activities of the resident inspectors, the project engineer, and DRS inspectors should be carefully coordinated. Panel members K. Landis and C. Casto, Branch Chiefs from DRP and DRS respectively, were tasked to develop a tentative inspection plan to assure that items ready for inspection were promptly inspected. The due date for this tentative plan is January 23. This plan is to become a living schedule modified as necessary.

Dates for future meetings were scheduled as follows:

In Region II - January 23, 1997 (10:00 am)

At Crystal River - February 12, 1997 (8:00 am)

Attachment: A. Restart Open Item Checklist

Docket 50-302

cc w/att:

L. A. Reyes, RA/RII

- E. W. Merschoff, ADRA/ RII
- J. R. Johnson, DRP/RII
- S. A. Varga, NRR

<sup>&</sup>lt;sup>1</sup> This discussion was held January 9, 1997, with FPC at the public meeting.

## Attachment A

## CRYSTAL RIVER 3 ISSUES CHECKLIST R ITEMS (TO BE INSPECTED BY THE NRC BEFORE RESTART)

Status as of January 13, 1997

The Crystal River Restart Panel met on November 13, 1996, and developed seven general areas under which the restart issues will be grouped. Those seven areas are:

- Knowledge of design and licensing bases and adequacy of design margin 1.
- Regulatory knowledge and perspective 2.
- 3. Operator performance and knowledge
- Marginally effective engineering organization 4. 5.
- Management oversight; including quality assurance, self assessment, and corrective action
- 6. Corrective actions for NRC violations
- 7. Other

| ISSUE         | DESCRIPTION  | AREA | NRC LEAD            | IR/SER | LICENSEE<br>STATUS | CONNERTS                                    | NRC     |
|---------------|--|------|---------------------|--------|--------------------|---|---------|
| LICENSEE'S RE | START LIST OF DESIGN-RELATED ISSUES (D.I.s) (per 10/28/96 ltr from )                                     | PPC) |                     |        |                    | -   | 1 STATU |
| CR3 D.I. 1    | HPI pump recirculation to the makeup tank  | 1    | RI                  |        | D-1                | See URI 96-01-02, IFI<br>96-17-02, IR 96-12 | R       |
| CR3 D.I. 2    | HPI system modifications to improve SBLOCA margins   | 1    | RI                  |        | D-2                | See URI 96-01-02, LER<br>96-06, IR 96-12    | R       |
| CR3 D.I. 3    | LPI pump mission time  | 1    | Lenahan/<br>NRR     |        | D-3                | See URI 96-201-01, I3<br>96-12              | R       |
| 7R3 D.I. 4    | Reactor building spray pump 1B NPSH  | 1    | Lenahan             |        | D-4                | See URI 96-201-02, IR<br>96-12              | R       |
| 3R3 D.I. 5    | Emergency feedwater system upgrades and diesel generator load impact                                     | 1    | Schin               |        | D-S                | See URI 96-12-01; EEI<br>96-12-02, IR 96-12 | R       |
| 3R3 D.I. 6    | Emergency diesel generator loading   | 1    | Fillion             |        | D-6                | See EEI 96-12-02, IR<br>96-12               | R       |
| R3 D.I. 7     | Failure modes and effects of loss of DC power  | 1    | Fillion             |        | D-7                | See URI 96-12-01, LER<br>96-07, IR 96-12    | R       |
| R3 D.I. 8     | Generic Letter 96-06 (Thermal overpreasure protection for Containment piping, penetrations, and coolers) | 1    | Lenahan/<br>Crowley |        | D-8                | Sea IR 96-12                                | R       |
|               |  |      |                     |        |                    |   | -       |

| LickWarf 9 OTHER RESTART ITONS       000000000000000000000000000000000000   | ISSUE   | DESCRIPTION   | AREA     | NRC LEAD           | IR/SER | LICENSEE                           | COMMENTS              | NRC    |
|---|---|---|----------|--------------------|--------|------------------------------------|-----------------------|--------|
| BAG 23/J0     Seissic sonitoring of HR Rad Monitor     1     Lenshan     D-19     R       BNST NPSH     NPSH concerts with RCCS pumps when SFP pumps are running in<br>NMS and Sector     1     Thomas     D-19     R       FIVE ARE/ OF CONTINUING CONCEAN, WITH IPAP RECOMMENDED INSPECTION AND RIL RECOMMENDED ADDITION<br>Was and Sector     1     Thomas     D-19     R       FIVE ARE/ OF CONTINUING CONCEAN, WITH IPAP RECOMMENDED INSPECTION AND RIL RECOMMENDED ADDITION<br>Waspesch     -     R     0P-2, OP-3     Inspect New PC system     R       Recommended<br>importion     -     RCC inspect Engineering Problem Identification and<br>Recommended<br>importion     5     Crowley/<br>Thomas     0P-2, OP-3     Inspect New PC system     R       Recommended<br>importion     -     NCC inspect Engineering Problem Identification and<br>Recommended<br>importion     5     Schin     OP-7, OP-8,<br>D-13, D-15,<br>D-16,  | LICENSEE'S OT   | ER RESTART ITENS  |          |                    | -      | 1                                  |                       | STATUS |
| BHST MPSH     MSE concern with ECCS pumps when SFP pumps are running in<br>MSE and Breizer     1     Thomas     D-19     Inclusion     R       FUT ARE/ OF CONTINUES CONCERN, WITH FAAP RECOGNDED INSTRUCTION AND HIL RECOMPOSED ADDITIONS     - NEC imspect Problem identification; focusing on <u>CA multis</u><br>problem Kaalyza index ling springs - increased imspection of<br>recommendations.     5     Crowley/<br>Dressight.     OP-2, OP-3     Imspect New PC system     R       Recommendations.     - NEC imspect Engineering Problem Identification; focusing on <u>Engineering Problem Identification</u> and<br>problem Kaalyza index ling spring with esghasis on 10<br>(Springstein).     5     Crowley/<br>Dressight.     OP-2, OP-3     Imspect New PC system     R       Recommendations.     - NEC imspect Engineering Problem Identification and<br>problem Kaalyza index ling spring with esghasis on 10<br>(Springstein).     Schin     OP-4, OP-6     50.55     R       Recommendations.     - NEC imspect Engineering Safety Focus; focusing on <u>Engineering Problem Identification and<br/>Handingstein and safety recusing in the plant's description basis<br/>inspection     4     Schin     OP-7, OP-8,<br/>D-15, D-15,<br/>D-16     R       Inspect Inspect Engineering Safety Focus; focusing on <u>Engineering Safety Focus; focusing on Engineering<br/>Problem Kably and manufactual basis<br/>inspection     1     Schin     OP-5, OP-4     R       Inspect Inspect Engineering Forbies Identification and<br/>Resolution; focusing on Engineering Safety Focus; focusing on Engineering<br/>Forbies Kably<br/>in the condition' Engineering Forbies Identification and<br/>Resolution; focusing on Engineering Fo</u></u>  | RMG 29/30   | Seismic monitoring of HR Rad Monitor  | 1        | Lenahan            | T      | D-19                               |                       | R      |
| PIVE AREA/ OF CONTINUES CONCERN, WITH TAP RECOMMENDED INSTRUCTION AND RIL RECOMMENDED DUDITIONS     PIVE AREA/OF CONCERN, WITH TAP RECOMMENDED INSTRUCTION AND RIL RECOMMENDED DUDITIONS       Oversight - Description     - MCC inspect Problem Identification; focusing on QA mudite<br>problem Realysis reciting pythers - Increased inspection of<br>problem Realysis and Exaluation; focusing on ION COMENT<br>Recommended     5 QA     Crewley/<br>Thomas     0P-2, 0P-3     Inspect New FC system     R       Marginally<br>Effective<br>Resolution; with emphasis on license realwations for<br>magnetion     Schin     0P-4     0P-6     50.59     R       Inspect Inspect Engineering Fraineering with emphasis on 10<br>Recommended<br>Inspect Control of States Problem Identifications and<br>Recommended<br>Inspect Inspect Unity of Engineering with emphasis on 10<br>Recommended<br>Inspect Inspect Unity of Engineering with emphasis on 10<br>Recommended<br>Inspect Inspect Inspect States Procus; focusing on proper<br>Addition of discretancies with the plant's despin basis<br>- Also Inspect Unity of Engineering identification and<br>Recommended<br>Inspect Inspect Inspect States Procus; focusing on proper<br>Addition of Constitution of Inspect States Procus; focusing on proper<br>Addition of Constitution of Inspect States Procus; focusing on proper<br>Addition of Constitution of Inspect States Procus; focusing on<br>the Design<br>- Also Inspect States Proper Inspect Inspect States Procus; focusing on<br>Recommended<br>Inspect Inspect States Procus; focusing on proper<br>Addition Constitution Recommender Inspect States Procus; focusing on<br>the Design<br>- Also Inspect States Procus; focusing on proper<br>Also Inspect States Proper Inspect States Procus; focusing on proper<br>Addition Constitution Recommender Inspect States Procus; focusing on prometoria states<br>- Also Inspect States Procus; focusing on communication within<br>Resolution; Focusing   | BWST NPSH   | NPSH concern with ECCS pumps when SFP pumps are running in BWS and Recirc   | 1        | Thomas             |        | D-19                               |                       | R      |
| Datagesent:<br>Develop:     - NRC inspect Problem Identification; focusing on QA audits<br>in the problem reporting prates Increased inspection of<br>realised register.     S     Crowley/<br>Thomas     OP-2, OP-3     Inspect New PC system     R       Recommended<br>Inspection     - NRC inspect Engineering Problem Identification and<br>Recommended<br>Inspection     - NRC inspect Engineering Problem Identification and<br>Recommended<br>Inspection     5     Crowley/<br>Thomas     OP-2, OP-3     Inspect New PC system     R       Also inspect Problem Identification; of the sophasis on licensee valuations for<br>relative problem Identification and<br>Recommended<br>Inspection     - NRC inspect Engineering Sterve valuations of<br>Inspect Control of Identification and Recompany and Refer valuations of<br>Inspect Control of Identification and<br>Recommended<br>Inspection     Schin     OP-7, OP-8,<br>D-13, D-15,<br>D-16     R       Lack of<br>Mesouse from<br>Recommended<br>Inspect Control of Identification and<br>Recommended<br>Inspect Control of Identification set<br>Recommended<br>Inspect Control of Identification set<br>Recommended<br>Inspect Control of Identification is proteine<br>Recommended<br>Inspect Control of Identification set<br>Recommended<br>Inspect Control of Identification with other site groups, and<br>NRC Inspect So 555, operability, reportability     2     Schin     OP-5, OP-4     R       Recommended<br>Inspect Control of<br>Recommended<br>Inspect Control of Identification with other site groups, and<br>NRC Inspect So 555, operability, reportability     3     RI     R <td>FIVE AREA'S OF</td> <td>CONTINUING CONCERN, WITH IPAP RECOMMENDED INSPECTION AND RIL RECO</td> <td>MOGNEDED</td> <td>DDITIONS</td> <td>1</td> <td><u> </u></td> <td></td> <td></td>   | FIVE AREA'S OF  | CONTINUING CONCERN, WITH IPAP RECOMMENDED INSPECTION AND RIL RECO   | MOGNEDED | DDITIONS           | 1      | <u> </u>                           |                       |        |
| <ul> <li>sectionally strategy and the section of the section and sector with explosing on program section of the corrective section system of the corrective section system of the section system of the corrective section system of the section system of the corrective section system of the section system of the corrective section system of the section system of the corrective section system of the section system of the corrective section system of the section system of the corrective section system of the system of the corrective section system of the corrective section system of the corrective section system of the system</li></ul> | Management<br>Oversight -<br>IPAP<br>Recommended<br>Inspection  | - NRC inspect Problem Identification; focusing on <u>QA</u> audits<br>and the <u>problem reporting system</u> Increased inspection of<br>Problem Analysis and Evaluation; focusing on <u>root cause</u><br><u>evaluations</u> .   | S<br>QA  | Crowley/<br>Thomas |        | OP-2, OP-3                         | Inspect New PC system | R      |
| Lack of<br>Adequate<br>Knowledge of<br>the Design<br>Basis - IAso inspect Engineering Safety Focus; focusing on proper<br>The Design<br>Basis - IAso inspect Engineering from the plant's design basis<br>resolution; focusing on programs for identifying design basis<br>issues and capturing them in the corrective action program.<br>- Also inspect Quality of Engineering; focusing on<br>sensitivity/understanding by the engineering; focusing staff<br>- Also assess the design margin, including the licensee's<br>*extent of condition* reviews       1       Schin       OP-7, OP-8,<br>D-13, D-15,<br>D-16       8         Lack of<br>Sensitivity<br>for the Need<br>to Comply<br>with<br>Regulations -<br>FAP<br>Recommended<br>inspect ion       - NRC inspect Sol.558, operability, reportability       2       Schin       OP-5, OP-4       8         Operations -<br>FAP<br>Recommended<br>to Comply<br>with<br>Regulations -<br>FAP<br>Recommended<br>inspect ion       - NRC inspect Safety Focus; focusing on communication within<br>other site groups, and<br>with commended inspect Safety Focus; focusing on communication within<br>operations, communication with other site groups, and<br>wertime       3       RI       8   | Marginally<br>Effective<br>Engineering<br>Organization<br>- IPAP<br>Recommended<br>Inspection                     | <ul> <li>NRC inspect Engineering Problem Identification and<br/>Resolution; with emphasis on <u>licensee evaluations for</u><br/><u>significant issues</u> and <u>work backlogs</u>.</li> <li>Also inspect Quality of Engineering; with emphasis on <u>10</u><br/><u>CFR 50.59 screening and safety evaluations</u>, <u>accuracy of the</u><br/><u>FSAR</u>, and <u>management oversight</u>.</li> </ul>  | 4        | Schin              |        | OP-4<br>OP-6                       | 50.59                 | R      |
| Lack of<br>Sensitivity<br>for the Need<br>to Comply<br>With<br>Regulations -<br>IPAP<br>Recommended<br>Inspection<br>Operator<br>Performance -<br>IPAP<br>Recommended<br>Inspection<br>Operations, <u>communication with other site groups</u> , and<br>RI<br>B<br>RI<br>B<br>RI<br>B<br>RI<br>B<br>RI<br>B<br>RI<br>B<br>RI<br>B<br>RI   | Lack of<br>Adequate<br>Knowledge of<br>the Design<br>Basis - IPAP<br>Recommended<br>Inspection                    | <ul> <li>NRC inspect Engineering Safety Focus; focusing on proper<br/>identification of discrepancies with the plant's design basis<br/>in the corrective action system.</li> <li>Also inspect Engineering Problem Identification and<br/>Resolution; focusing on programs for identifying design basis<br/>issues and capturing them in the corrective action program.</li> <li>Also inspect Quality of Engineering; focusing on<br/>sensitivity/understanding by the engineering/licensing staff<br/>of the plant's design basis.</li> <li>Also assess the design margin, including the licensee's<br/>"extent of condition" reviews</li> </ul> | 1        | Schin              |        | CP-7, OP-8,<br>D-13, D-15,<br>D-16 |                       | R      |
| Operator       - NRC inspect Safety Focus; focusing on communication w thin       3       RI         Paperations, communication with other site groups, and       3       RI         Inspection       8   | Lack of<br>Sensitivity<br>for the Need<br>to Comply<br>With<br>Regulations -<br>IPAP<br>Recommended<br>Inspection | - NRC inspect 50.598, operability, reportability  | 2        | Schia              |        | OP-5, OP-4                         |                       | R      |
|   | Operator<br>Performance -<br>IPAP<br>Recommended<br>Inspection  | - NRC inspect Safety Focus; focusing on <u>communication w</u> thin <u>operations</u> , <u>communication with other site groups</u> , and <u>overtime</u>   | 3        | RI                 |        |                                    |                       | R      |

| ISSUE                       | DESCRIPTION   | AREA | NEC LEAD        | IR/SER   | LICENSER  | CONNENTS   | HRC     |
|-----------------------------|---|------|-----------------|----------|-----------|--|---------|
| INSPECTOR POL               | LOWUP SYSTEA  |      |                 |          |           |  | Jointus |
| URI 95-02-02                | Control room habitability envelope leakage. Excessive<br>leakage paths through doors, dampers, and drains due to<br>design errors and lack of surveillances/preventive<br>maintenance | 1    | Schin           |          |           | See TIA 95003; FPC TS<br>Change Request No. 208<br>of 8/28/96; LERS 96-<br>04, 94-10, 95-01, 95-<br>04-01, 95-09; IRS 95-<br>02, 95-09, 95-11, 95-<br>16, 95-21; FPC ltrs.<br>of 5/26/95 and<br>10/23/95 | R       |
| URI 96-01-02                | Discrepancies in the high pressure injection design basis<br>analysis   | 1    | RI              |          | D-9       | See CR3 D.I. 1;<br>CR3 D.I. 2  | R       |
| URI 96-04-01                | Discrepancies in the EDBD and the FSAR regarding the prevention of post-LOCA boron precipitation  | 1    | Crowley         | IR 96-19 |           | See EEI 95-19-07.  | R. C    |
| URI 96-05-02                | Design concerns with main steam line hangars used in seismic<br>and other dynamic load applications   | 1    | Lenahan         |          |           |  | R       |
| URI 96-06-03                | Non-safety related transfer switch used in ES status indicating light circuitry   | 1    | Fillion         |          |           |  | R       |
| URI 96-12-21                | Emergency Feedwater low NPSH to both pumps due to postulated single failure   | 1    | Schin           | IR 95-19 | D-17      | See CR3 D.I. 5;<br>CR3 D.I. 7; EEI 95-19-<br>03, -04, -05, -06   | R, C    |
| UR1 96-17-03                | Failure to conduct required Technical Specification<br>surveillance testing on safety related circuitry (GL 96-01)  | 4    | Fillion         |          |           | See MPA #L601 (GL 96-<br>01)   | R       |
| URI 96-201-01               | Long term plant cooldown following a small break LOCA assuming a single failure in the decay heat drop line   | 1    | Crowley/<br>NRR |          | D-3       | See CR3 D.I. 3; See IR<br>96-11. NRR taking<br>responsibility for<br>this item.  | R       |
| URI 96-201-02               | NPSH for building spray pump has very little margin, and some calculation factors were nonconservative  | 1    | Lenahan         |          | D-4       | See CR3 D.I. 4   | R       |
| URI 96-201-03               | Operating curves 16, 17, and 18 in OP-103B are not validated by licensee  | •    | Hopper          |          | 0-1       |  | R       |
| URI 96-201-04               | Nonsafety-related positioners on safety-related valves  | 1    | Thomas          |          | R-7, D-10 | See IR 96-08   | R       |
| 7RI 96-201-25               | Service water system heat loads did not consider maximum input heat (OP-1038, Curve 15)   | 1    | Crowley         | IR 96-19 | 0-1       | See EBI 96-19-08   | R. C    |
| JRI 96-201-07               | EDG not protected against water spray from failure of fire protection deluge system in EDG room   | 1    | Fillion         |          |           |  | R       |
| ER 95-13-01                 | Design deficiency may cause makeup tank vortexing resulting<br>in failure to meet Appendix R requirements   | 1    | Mellan          |          |           | LER 95-13-00 closed in   | R       |
| ER 96-18-00,<br>ER 96-18-01 | Failure to verify RB penetrations closed per TS   | 1    | RI              |          | 0-2       | 11 30-00   | R       |
| EI 96-10-01                 | Four examples of failure to follow refueling procedure FP-203   | 3    | Hopper          |          |           |  | R       |
| EI 96-10-02                 | Pailure to assure root cause analysis and corrective actions taken to preclude repetition were adequate after refuel incident (no PR issued)  | 5    | Hopper          |          |           | **   | R       |

| ISSUE   | DESCRIPTION  | AREA | NRC LEAD          | IR/SER | LICENSEE                          | CONDENTS   | NRC |
|---|--|------|-------------------|--------|-----------------------------------|--|-----|
| EEI 96-12-02                                      | EDG loading USQs due to inadequate 10 CFR 50.59 evaluations;<br>three examples (one modification & two procedure changes)  | •    | Schin/<br>Fillion |        | R-2, D-6, D-<br>14, D-15,<br>OP-5 | Enforcement conference<br>1/24/96. See CR3 D.I.<br>5; CR3 D.I. 6   | R   |
| EEI 96-12-03                                      | Inadequate corrective actions for 10 CFR 50.59 evaluation errors; two examples   | 5    | Schin             |        |                                   | Enforcement conference   | R   |
| EEI 95-12-04                                      | Use of unverified calculations to support modifications.<br>MRC inspect licensee's extent of condition reviews.  | 4    | Schin             |        | 0P-6                              | Enforcement conference 1/24/96   | R   |
| EEI 96-19-01                                      | Three inadequate procedures for containment penetration surveillances  | 4    | RI                |        |                                   | Enforcement conference 1/24/96   | R   |
| EEI 96-19-02                                      | Inadequate corrective actions for inadequate containment penetration surveillances   | 1    | RI                |        |                                   | Enforcement conference 1/24/96   | R   |
| EEI 96-19-03                                      | EFW NPSH USQ due to inadequate 10 CFR 50.59 safety evaluation for a modification   | 1    | Schin             |        |                                   | Enforcement conference   | R   |
| EEI 96-19-04                                      | Failure to update applicable design documents to incorporate<br>EFW design information (EFP-2 assumed operati g when EFP-1<br>trips at 500# RCS pressure)  | 1    | Thomas            |        |                                   | Enforcement conference 1/24/96   | R   |
| EEI 96-19-05                                      | Failure to include applicable design information in the design input requirements for an EFW modification (EFP-2 continuing to operate after EFP-1 trips at 500\$ RCS pressure and hydraulic requirements) | 1    | Thomas            |        |                                   | Enforcement conference 1/24/96   | R   |
| EEI 96-19-06                                      | EFW USQ due to removing the automatic open signal from ASV-<br>204, reducing the reliability of EFP-2  | 1    | Thomas            |        |                                   | Enforcement conference   | R   |
| EEI 96-19-07                                      | Inadequate 50.59 evaluation for post-LOCA boron precipitation control  | 1    | Crowley           |        |                                   | Enforcement conference<br>1/24/96, Verify<br>procedures and<br>documentation adequate<br>prior to restart. | R   |
| EEI 96-19-08                                      | Error in design calculations for SW system heat loads  | 1    | Crowley           |        |                                   | Enforcement conference 1/24/96   | R   |
| EA 95-16<br>(was EEI 95-<br>02-04)                | Use of non-conservative trip setpoints for safety-related<br>equipment (SLIII). Additional examples identified in IR 95-<br>16.  | 6, 1 | Mellan            |        |                                   | See IR 95-16, IR 95-21   | R   |
| EA 95-126,<br>NOV I.A (was<br>EEI 95-22-01)       | Nine instances where operators violated procedures for MUT pressure/level (CLIII).   | 6, 3 | Schin             |        |                                   | See IR 96-04   | R   |
| EA 95-126.<br>NOV I.B (was<br>EEI 95-22-02)       | Conduct of unauthorized tests of MUT without 10 CFR 50.59<br>evaluation (SLIII). Additional examples (four tests)<br>identified in 1/18/96 letter titled EA 95-126 and EA 96-185).<br>(See URI 96-04-08)   | 6, 3 | Schin             |        |                                   | See IR 96-04   | R   |
| EA 95-126,<br>NOV I.C.1<br>(was EEI 95-<br>22-03) | Failure to take adequate corrective actions for operator<br>concerns regarding OP-103B, Curve 8, for MUT pressure/level<br>limits (SLIII)  | 6, 5 | Schin             |        |                                   |  | R   |
| EA 95-126,<br>NOV I.C.2<br>(was EEI 95-<br>22-03) | Corrective actions for an inadequate Curve 8 (two STI's and a revised Curve 8A & 8B) whre also incorrect (SLIII)   | 6, 5 | ai                |        | 0-1                               |  | R   |

| ISSUE   | DESCRIPTION  | AREA | NRC LEAD             | IR/SER | LICENSEE | COMMENTS              | NRC |
|---|--|------|----------------------|--------|----------|-----------------------|-----|
| EA 95-126.<br>NOV I.D.1<br>(was EEI 95-<br>22-04) | Design controls failed to ensure adequate safety margin for HPI pumps for certain LOCA scenarios (SLIII)   | 6, 1 | RI                   |        | 0P-6     |                       | R   |
| EA 95-126,<br>NOV I.D.2<br>(was EEI 95-<br>22-04) | Swapover of ECCS pumps' suction from BWST (at five feet) to reactor building sump was inadequate (SLIII)   | 6, 1 | RI                   |        |          | -                     | R   |
| EA 95-126,<br>NOV II.A (was<br>EEI 95-22-04)      | EOPs allowed "gle LPI pump to supply two HPI pumps, with<br>insufficient "H for LPI pump (SLIII"   | 6, 1 | RI                   |        |          |                       | R   |
| EA 95-126.<br>NOV II.B (was<br>EEI 95-22-03)      | Failure to take adequate corrective actions for tank volumes/level/suction point (SLIV)  | 6, 5 | RI                   |        |          |                       | R   |
| EA 95-126,<br>NOV II.C (was<br>EEI 95-22-03)      | Failure to ensure fire water storage tank contained adequate volume of water (SLIV)  | 6, 1 | RI                   |        |          |                       | R   |
| VIO 93-15-57                                      | Inadequate EOP and AP procedures   | 6, 3 | Hopper               |        | 0-3      | See IR 96-04, IFI 96- | R   |
| VIO 55-16-03                                      | Inadequate procedure for operation of the makeup pump 1A cooling water   | 6, 1 | RI                   |        |          |                       | R   |
| VIG 95-21-03                                      | Failure to isolate the class 1E from the non-class 1E<br>electrical circuitry for the RB purge and mini-purge valves   | 6, 1 | Thomas/<br>RI        |        |          |                       | R   |
| VIO 96-01-01                                      | Inadequate corrective action for HPI flow indication problem   | 6.5  | PI                   |        | 1        |                       | R   |
| VIO 96-01-06                                      | Failure to correctly translate design basis of SW system into procedures, drawings, and instructions   | 6, 1 | RI                   |        |          |                       | R   |
| VIO 96-04-02                                      | Failure to take prompt corrective action in revising<br>procedure VP-580, Plant Safety Verification (for STAs). VP-<br>580 contained outlated and incorrect information. | 6, 5 | Hopper               |        |          |                       | R   |
| VIO 96-05-01                                      | Failure to create a PR and OCR for damaged main ateam line hangars   | 6, 5 | Lenahan,<br>Ragbayan |        |          |                       | R   |
| VIO 96-05-05                                      | Failure to follow procedures for updating design basis documents   | 6.4  | Crowley              |        | OP-8     |                       | R   |
| VIO 96-05-07                                      | Inadequate receiving inspections for battery chargers (ven_or tests)   | 6, 4 | Schin                |        |          | 1                     | R   |
| VIO 96-05-08                                      | Failure to follow purchasing procedures for inverters  | 6, 4 | Schin                |        |          |                       |     |
| VIO 96-06-02                                      | No procedure for demineralized water flush performed by operators on boric acid addition lines   | 6, 3 | RI                   |        |          |                       | R   |
| VIO 96-06-04                                      | No evaluation on non-FSAR vital battery charger configuration  | 6.4  | RI                   |        |          |                       | R   |
| VIO 96-06-07                                      | PR not initiated to resolve CREVS test failure   | 6, 5 | Lenahan              |        |          |                       | R   |
| VIO 96-08-01                                      | Corrective action not taken on make-up system audit findings<br>& excessive vibration on spent fuel pool pump cooling fan<br>motor                                       | 6, 5 | RI                   |        |          |                       | R   |

| ISSUE           | DESCRIPTION   | AREA | NRC LEAD  | IR/SER | LICENSEE | COMMENTS  | NRC |
|-----------------|---|------|-----------|--------|----------|---|-----|
| VIO 95-09-03    | Failure to perform a 10 CFR 50.59 safety evaluation for<br>changes to procedures described in the FSAR for controlling<br>dissolved hydrogen concentration in the RCS | 6, 3 | Thomas    |        |          |   | R   |
| VIO 96-09-04    | Failure to update operating curves to reflect 1981 power uprate   | 6, 4 | Thomas    | 1      | 1        |   | R   |
| VIO 96-09-05    | Failure to incorporate derign change of MUV-64 into operations procedures   | 6. 4 | Thomas/   |        | Licensee |   | R   |
| /IO 96-09-06    | Three examples of design control errors (erroneous calculation inputs and ISI boundary)   | 6, 4 | M. Miller |        | OP-8     |   | R   |
| /10 96-09-07    | Untimely corrective actions for the EFIC system concerns and problems   | 6, 5 | Thomas    | 1      | 1        |   | R   |
| 10 95-11-04     | Reactor building sump not constructed in accordance with approved construction drawings   | 6, 1 | RI        | 1      | 1        |   | R   |
| IO 96-15-02     | Failure of reactor coolant pump oil collection system to retain oil leaking from reactor coolant pump   | 6, 7 | W. Miller |        |          |   | R   |
| FI 95-15-01     | Design requirements for nitrogen overpressure (service water)   | 7    | L. Mellan |        |          | Need to review<br>licensee's calculation<br>& conclusion. See IR<br>95-21 | R   |
| FI 96-03-15     | Evaluate the licensee's revised TS Bases and related 10 CFR 50.59 analysis for NPI flow indicators  | 2    | RI        |        |          |   | R   |
| PI 96-17-02     | Potential for HPI/LPI recirculation resulting in make-up tank overflow  | 1    | RI        |        |          | See CR3 D.I. 1  | R   |
| FI 96-17-04     | Adequacy of 10 CFR 50 Appendix R fire study and documentation   | 1    | W. Miller |        |          |   | E   |
| 7 96-201-11     | Design basis for decay heat/core flood/reactor coolant piping temperature   | 1    | Lenahan   |        |          | Identified in IPAP  | R   |
| T 96-201-12     | Conduit sizing criteria - jamming ratio not considered  | 1    | Fillion   |        |          | Identified in IPAP  | R   |
| I 96-201-13     | Cable ampacities - several cables exceed rating, including DHP-1  | 1    | Fillion   |        |          | Identified in IPAP  | R   |
| I 96-201-14     | EDG protective trips not bypassed during emergency mode of operation  | 1    | Fillion   |        | D-12     | Identified in IPAP  | R   |
| I 96-201-15     | Verification of motor starting data   | 1    | Fillion   |        |          | Identified in IPAP  | R   |
| I 96-201-16     | Coordination of Second level undervoltage relay (SLUR)<br>setting vs. inverter operation  | 1    | Fillion   |        |          | Identified in IPAP  | R   |
| I 96-201-17     | Coordination of SLUR and fuse protection  | 1    | Fillion   |        |          | Identified in IPAP<br>report as IF-96-201-07                              | R   |
| TI-PLANT ACT    | IONS  |      |           |        |          |   |     |
| #L507;<br>95-07 | Pressure locking and thermal binding of safety-related gate<br>valves. Currently in staff review. An RAI is outstanding.<br>Expected completion?                      | 2    | WRR       |        |          |   | R   |

| ISSUE                   | DESCRIPTION   | AREA | NRC LEAD          | IR/SER | LICENSEE<br>STATUS | COMMENTS   | NRC |
|-------------------------|---|------|-------------------|--------|--------------------|--|-----|
| MFA #1601;<br>GL 96-01  | Testing of safety-related logic circuits -<br>Licensee response in staff review. More details are<br>required. This issue requires attention.   | 2    | Fillion           |        | R-1                | 11/96 - the licensee<br>has identified testing<br>deficiencies that must<br>be fixed prior to<br>restart | R   |
| MPA #L503;<br>GL95-03   | Circumferential cracking of SG tube flaws.<br>Licensee response in staff review.  | 2    | Blake/NRR         |        |                    |  | R   |
| LICENSE AMEND           | KENT/BELIEF BROMECTE  | 1    | L                 | 1      |                    |  |     |
| ССНЕ                    | Control complex habitability envelope - Including TIA 95-03<br>need to be addressed. Licensee submittal does not provide<br>adequate TS action.   | 2    | Schin/NRR         |        |                    |  | R   |
| 07995 T.C.C.            |   |      |                   |        |                    |  |     |
| LTOP                    | Current TS does not address LTOP prevention or mitigation.<br>On the basis of GL 88-11, the licensee submitted information<br>to demonstrate that LTOP in BAW plants have less than 1 in<br>100 reactor years probability of occurrence and as a result<br>per GL 88-11 non-appendix G methodology can be used for PT<br>curves. Such a PT curve would provide for higher LTOP enable<br>pressure and temperature and would provide operational<br>flexibility. Staff denied the request in 1995 and requested<br>a revised response. The licensee expects to respond late<br>1997. | 2    |                   |        |                    | R, system branch will<br>send letter to<br>licensee that they<br>have to submit TS.                      | R   |
| Appendix R              | Appendix R design basis issues review by FPC consultant. NRC<br>review open Appendix R issues to assure that there are no<br>restart or operability issues imbedded in them.  |      | W. Miller/<br>NRR |        | D-11               |  | R   |
| Operator<br>Workarounds | NRC review operator workarounds list to assure that there are<br>no restart or operability issues contained in them   |      | RI                |        | M-2                | Sce VIO 96-09-07   | R   |
| USQs                    | Licensee request and NRC review and issue license amendments for all Unreviewed Safety Questions (USQs)   |      | NRR               |        | R-2, R-4           |  | R   |
| USQ                     | EDG Load Uprate   |      | Fillion/          |        | R-2                | See EEI 96-12-02, CR3  | R   |
| USQ                     | ASV 204   |      | Thomas/           |        | R-4                | See EEI 96-19-04, CR3  | R   |
| USQ                     | DH-45-FI  |      | Crowley/<br>NRR   |        | R-5                | See URI 96-201-05  | R   |
| USQ                     | EDG Load List Update  |      | Fillion/          |        | R-6                | See EEI 96-12-02, CR3  | R   |
| USQ                     | ITS 3.0.3 relief for LPI/DH to allow modification of air operators for DCV 17, 18, 177, 178   |      | Thomas/<br>NRR    |        | R-7                | See URI 96-201-04  | R   |
| ILRT                    | Conduct an ILRT or seek an Amendment to utilize Method B of<br>Appendix J to 10 CFR 50  |      | NRR               |        |                    |  | R   |
| 50.54f Letter           | NRC review licensee's 50.54f letter response (due 2/9/97) on design bases   |      | NRR               |        |                    |  | R   |

| License Verify license conditions are met RI RI R  | ISSUE      | DESCRIPTION                       | ANEA | MRC LEAD | 13/588 | LICENSEE | CONNERTS | RM  |
|--|------------|-----------------------------------|------|----------|--------|----------|----------|-----|
| Conditions Verify license conditions are met RI RI |            |                                   | T    |          |        | STATUS   |          | 11S |
|  | Conditions | Verify license conditions are met |      | RI       |        |          |          | ж   |

Plants), Residera's OIL, PM's OIL

NOTE: ^pen allegations, OI investigations, and emerging/draft issues are listed separately.

## N ITEMS (INSPECTION PRIOR TO RESTART IS NOT HEEDED) CRYSTAL RIVER 3 ISSUES CHECKLIST

Status as of January 13, 1997

| ISSAE            | DESCRIPTION   | AREA | NRC LEND | IR/SER | LICENSEE STATUS | CONNENTS  | NAC      |
|------------------|---|------|----------|--------|-----------------|---|----------|
| LICENSEE'S REST  | TART LIST OF DESIGN-RELATED ISSUES (D.I.s)(per 10/28/96 ]tr from FPC)   |      |          |        |                 |   | Chiuse 1 |
|                  |   |      |          |        |                 |   |          |
|                  |   |      |          |        |                 | Aret Decision and Articles and an area and an     |          |
| LICENSEE'S OFT   | R RESTART FIENS   |      |          |        |                 | DEC 12055181/00/00/0                              | F        |
| OTSG TUALIZ      | Adequacy of OTS6 tube stress-relieved rolled joints is questioned. Bu06 analysis of a Davis-Besse puiled OTS6 tube, current test data, and limited field coperience conflict with test data from 1012 which field to be added and the stress of | 1    |          |        |                 | See Ficensee Precursor<br>Card PC 96-5077 of      | у к      |
|                  |   |      |          |        |                 |   | 1        |
| FIVE MEAS OF CO  | OWTINUING CONCERN, WITH IPAP RECOMMENDED INSPECTION AND RIL RECOMMENDED ADDITIONS   |      |          |        |                 |   | F        |
|                  |   |      |          |        |                 |   |          |
|                  |   |      |          |        |                 |   | 1        |
| INSPECTOR FOLLOW | ADD SYSTEM  |      |          |        |                 |   | 1        |
| UR1 95-021-04    | Excessive cooldown rate   | 9    |          |        |                 | See (03) 0.1.1.                                   | * 5      |
| URI %-03-04      | Preasuring of percent through-wall indications with an unqualified procedure  | 1    |          |        |                 | See IR 96-06. Generic<br>issue being addressed by | и (б     |
| 181 %-03-05      | Eddy current sample expansion based on degraded tube percentages  | 1    |          |        |                 | See 18 96-06.                                     | N (S)    |
| UR1 96-06-10     | Justification for removal of Thermo-Lag protection from the source range instrumentation  | 1    |          |        |                 |   | ¥ (S)    |
| UR1 95-07-03     | Incorrect information provided by contractors   | 7    |          |        |                 | :   | N (S)    |
| URI 96-201-06    | Preferred offsite electrical power source with plant shut down (500 kv<br>switchpard) is not qualified. Note: Until this issue is resolved.<br>licensee is not using 500 KV switchpard as an electrical power source  | 1    |          |        |                 |   | # (S)    |
| URI 96-201-09    | Testing to qualify relays beyond munufacturers' ratiogs was inadequate  | -    |          |        |                 |   | *        |
| 158 53-82-82     | Switchyard cable failure caused degnaded voltage of Class IE electrical buses and actuation of EDG  | 1    |          |        |                 | LER 93-02-01 closed in IR                         | N (1)    |

| ISSUE   | DESCRIPTION   | AREA | NRC LEAD | IR/SER | LICENSEE STATUS | COMMENTS   | NRC   |
|---|---|------|----------|--------|-----------------|--|-------|
| LER 94-06-01,<br>LER 94-06-03,<br>LER 94-06-04,<br>LER 94-06-05 | Deficiency in understanding of technical requirements leads to nonconservative RPS setpoint and potential violation of TS                     | 2    |          |        |                 | LER 94-06-00 closed in IR<br>95-16. See EA 95-16.                          | N (D) |
| LER 95-09-00  | Minimal release & ing sulfur dioxide delivery causes actuation of toxic gas monitor resulting in control room emergency ventilation actuation | 7    |          |        |                 | See IR 95-11.  | N (1) |
| LER 95-10-01  | Inadequate procedure causes low cooling water flow to makeup pump<br>resulting in operation outside the design basis                          | 1    |          |        |                 | LER 95-10-00 closed in IR<br>95-16. See also URI 95-<br>11-02 VIO 95-16-03 | N (1) |
| LER 95-17-00  | SW flow to control room coolers controlled by air operated valves which could fail open   | 1    |          |        |                 | See IR 95-16, VIO 96-01-   | N (D) |
| LER 95-18-00,<br>LER 95-18-01,<br>LER 95-18-02                  | Inadequate TS note allowed delayed entry into 15 LCD  | 2    |          |        |                 | See NCV 95-18-05.  | N (I) |
| LER 95-19-00  | Leak instrumentation for SW flow to RBCUs incapable of measuring 90 gpm   | 1    |          |        |                 | See IR 95-18.  | N (D) |
| LER 95-23-01.<br>LER 95-23-02                                   | Inconsistent design assumptions cause building spray flow rates to be outside design basis  | 1    |          |        |                 | LER 95-23-00 closed in IR  | N (I) |
| LER 95-25-00.<br>LER 95-25-01                                   | Inadequate isolation of safety/non-safety related circuits  | 1    |          |        |                 | See VI0 95-21-03.  | N (D) |
| LER 95-28-00,<br>LER 95-28-01                                   | BWST vacuum breaker has inadequate relief capacity  | 1    |          | 1      |                 | See 18 95-21.  | N (I) |
| LER 96-01-01  | EFIC control circuits misrouted: Appendix R concern   | 1    |          |        |                 | LER 96-01-00 closed in IR<br>96-04: See also NCV 96-<br>01-03              | N (I) |
| LER 96-02-00  | Minipurge valve has safety/non-safety related circuits without isolation  | 1    |          |        |                 | See VI0 95-21-03.  | N (I) |
| LER 96-03-00.<br>LER 96-03-01                                   | RCS cooldown rate exceeded during cooldown  | 3    |          |        |                 | See URI 95-21-04.  | N (I) |
| LER 96-04-00  | COHE control dampers found damaged & leaking  | 1    |          |        |                 | See URI 95-02-02, IR 95-   | N (D) |
| LER 96-85-01  | SW flow to RBCUs could exceed design  | 1    |          |        |                 | LER 96-05-00 closed in IR<br>96-04. See also VIO 96-<br>01-01              | N (D) |
| LER 96-06-00.<br>LER 96-06-01                                   | HP1 instrument error could result in HP1 pump runout  | 1    |          |        |                 | See IR 95-20, IR 96-04,  | N (D) |
| LER 96-07-00.<br>LER 96-07-01                                   | HPI line SBLOCA/LOOP/loss of dc bus could have inadequate HPI flow<br>instrumentation   | 1    |          |        |                 | See IR 96-01, CR3 D.1. 2.  | N (D) |
| ER 96-08-00   | Ambiguous TS note results in not performing RCS leak surveillance prior to Mode 2   | 2    |          |        |                 |  | N (5) |
| ER 96-09-00   | Failure to reattach instrument tubing to seismic supports after modification leads to operation outside design basis                          | 1    |          |        |                 | See URI 96-03-06. IR 96-   | N (I) |
| ER 96-10-00   | Low flow in SW system cooled components causes operation outside design basis   | 1    |          |        |                 | See VIO 95-16-03.  | N (D) |
| ER 96-11-00   | Personnel error causes testing deficiency resulting in condition<br>prohibites by improved 15 (G. 96-01 issues)                               | 1    |          |        |                 | See MPA #L601 (GL 96-01).  | N (D) |

| ISSUE  | DESCRIPTION  | AREA | NRC LEAD | IR/SER | LICENSEE STATUS | COMMENTS                  | NRC   |
|--|--|------|----------|--------|-----------------|---------------------------|-------|
| LER 96-12-00,<br>LER 96-12-01,<br>LER 96-12-02 | Operation outside design basis caused by battery chargers having inadequate test results accepted in error   | 4    | -        |        |                 | See VIO 96-05-07.         | N (D) |
| LER 96-13-00                                   | Operator error resulted in the inadvertent actuation of DCP-1A   | 3    | 1        | 1      |                 | See NCV 96-03-02          | N (1) |
| LER 96-15-00                                   | Personnel errors cause cable separation/isolation concerns resulting in operation outside the design basis (toxic pas monitors)  | 1    |          |        |                 | See IR 96-04.             | N (D  |
| LER 96-16-00                                   | CREVS filter testing did not meet TS specs   | 2    | RI       | 1      |                 |                           | N (5) |
| LER 96-19-00                                   | Non-safety related switch used in safety related wiring for ES status lights   | 1    |          | 1      |                 | See URI 96-06-03.         | N (D) |
| LER 96-20-00                                   | Unreviewed safety questions concerning EDG overloading caused by<br>interpretation of regulatory requirements  | 4    |          | 1      | R-2, D-6, D-14, | See EEI 96-12-02.         | N (D) |
| LER 96-23-00                                   | Personnel error leads to missed surveillances resulting in violation of Technical Specifications (missed remote shutdown panel EFW pump pressure instrument channel check) | 2    |          |        | 0-15, 0-5       | See VIO 96-15-01.         | N (D) |
| LER 96-24-00                                   | Plant modification causes unanalyzed condition regarding emergency feedwater   | 1    |          |        |                 | See URI 96-12-01.         | N (D) |
| LER 96-25-00                                   | Personnel error causes testing deficiency resulting in condition<br>prohibited by Technical Specifications (12 contacts in ES logic were not<br>being tested)              | 1    |          |        |                 | See MPA #L601 (GL 96-01). | N (D) |
| /10 54-25-01                                   | Failure to properly control the Control Complex Habitability Envelope<br>(door blocked open for maintenance work)  | 6.7  |          |        |                 | See URI 95-02-02.         | N (D) |
| 10 94-27-02                                    | Failure to make two 10 CFR 50.73 reports to the NRC within the required time   | 6.2  |          | 1      | 0P-4            | See IR 95-62, IR 95-08.   | N (I) |
| 10 94-27-03                                    | Failure to make one required 10 CFR 50.72 report to the NRC within the required time   | 6.2  |          |        | 0P-4            | See IR 95-08.             | N (1) |
| 10 96-01-05                                    | Two examples of failure to update FSAR as required by 10 CFR 50.71(e)  | 6.4  |          | 1      |                 |                           | N (5) |
| 10 96-02-01                                    | Failure to maintain 0.2 footcandles in the protected area  | 6.7  |          |        |                 | See IR 96-07.             | N (5) |
| 10 96-02-04                                    | Failure to maintain secondary alarm station operable and inadequate compensatory measures  | 6.2  |          |        |                 |                           | N (5) |
| 10 96-03-11                                    | Failure to follow radiation work penalt requirements   | 6.7  |          |        |                 |                           | N (5) |
| 10 96-03-12                                    | Failure to report the transport of a radioactively contaminates individual offsite   | 6. 2 |          |        |                 |                           | N (S) |
| 0 96-03-13                                     | Unescorted visitor personnel within the protected area   | 6.7  |          |        |                 |                           | H (5) |
| 0 96-05-04                                     | Licensee approved eddy current acceptance criteria different from TS requirements  | 6. 2 |          |        |                 |                           | N (S) |
| 0 96-06-06                                     | Failure to timely notify the NRE of a condition outside the Appendix $\hat{\kappa}$ Licensing design basis   | 6. 2 |          |        |                 |                           | ¥ (S) |
| 0 96-07-01                                     | Failure to protect safeguards information  | 6.7  |          |        |                 |                           | # (5) |

| ISSUE        | DESCRIPTION  | AREA | NRC LEAD | IR/SER   | LICENSEE STATUS | COMMENTS                   | NRC      |
|--------------|--|------|----------|----------|-----------------|----------------------------|----------|
| V10 96-07-02 | Failure to complete screening elements for Fitness for Duty Personnel  | 6. 7 |          |          |                 | 1                          | N (S)    |
| v10 96-09-01 | Failure to follow a maintenance procedure resulting in the inadvertent initiation of the control room emergency ventilation system | 6.7  |          |          |                 |                            | N (5)    |
| V10 96-09-02 | linescorted visitor personnel within the protected area  | 6. 7 |          |          |                 |                            | N (5)    |
| VIO 96-11-01 | Inadequate work instructions to prevent the inadvertent start of the A EDG   | 6.7  |          |          |                 |                            | N (5)    |
| V10 96-11-03 | Personnel performing work on the reactor building sump without logging onto a clearance, as required by approved WR                | 6. 7 |          |          |                 |                            | N (S)    |
| v10 96-15-01 | Failure to perform a required TS surveillance for the remote shutdown panel  | 6. 2 | 1.000    | 1        |                 |                            | N (5)    |
| IFI 94-18-09 | Review periodic verification plans - MOV (GL 89-10 item)   | 2    |          |          |                 | See IR 95-11. IR 95-21:    | N (1)    |
| IF1 95-02-05 | Resonance noise in vicinity of MUV-25  | 7    |          |          |                 | 266 OF 03-10               | N (5)    |
| IFI 95-08-03 | Emergency Aperating Procedure update program   | 3    | 100      |          |                 | See 18 95-16, VIO 93-16-07 | ·· (5)   |
| IFI 95-11-01 | SCBA requirements for personnel during a toxic gas release   | 2    |          |          |                 |                            | N (S)    |
| IFI 95-15-02 | Design requirements for dynamic LOCA effects   | 1    |          |          |                 | See IR 95-21 and TIA 96-   | N (S)    |
| IF1 95-15-03 | Design requirements for reactor coolant pump cooler failure  | 1    |          |          |                 | See IR 95-21 and TIA 95-   | N (S)    |
| IFI 95-15-04 | Code requirement for thermal relief valves on decay heat removal heat exchangers   | 1    |          |          |                 | See IR 95-21 and TIA 96-   | N (S)    |
| F1 95-15-05  | Relief valves removed from heat exchangers   | 1    |          |          |                 | See IR 95-21 and TIA 96-   | N (S)    |
| F1 95-21-02  | Modification to the standby feedwater pump recirculation line  | 1    |          |          |                 | 014                        | N (S)    |
| FI 96-03-16  | Review of MAR 96-02-09-01, HP1 flow indicators, installation package and functional testing results                                | 1    |          |          |                 |                            | N (S)    |
| F1 %-04-03   | Effect of setpoint calculations on EOP revisions   | 1    |          |          |                 | See VIO 93-16-07           | N (D)    |
| F1 96-05-06  | Large break loss of coolant analysis generic concerns  | 1    |          |          |                 |                            | N (5)    |
| 1 96-06-09   | Deficiencies in Meratiss fire barrier program procedures and documentation   | 4    |          | 18 96-15 |                 |                            | N (S), C |
| 1 96-08-02   | Reactor building cavity cooling piping thermal relief protection   | 1    |          |          |                 | See D.1. 8. 61. 96-06      | N (D)    |
| 7 96-15-03   | Actions taken to resolve post-accident recriticality concerns due to<br>localized boron dilution                                   | 1    |          |          |                 | NRR reviewing, generic BBW | N (G)    |

| ISSUE                                   | DESCRIPTION  | AREA | NRC LEAD | IR/SER | LICENSEE STATUS | COMMENTS                         | NRC     |
|---|--|------|----------|--------|-----------------|----------------------------------|---------|
| HULTI-PLANT ACTI                        | 045  |      |          |        |                 |                                  | I SIMID |
| MPA #8105;<br>GL 87-02                  | Seismic qualification of equipment. Licensee's criteria and procedures approved. Some issues are pending and would be resolved thru audit (scheduled for Mar 97). Licensee's field walkdown results are currently in staff review.   | 2    |          |        |                 | Expected completion<br>December. | N (5)   |
| MPA #B111 (IPE);<br>MPA#B118 (IPEEE)    | IPE and IPEEE - These are in staff review. Not a restart item.   | 2    |          |        |                 |                                  | N (5)   |
| MPA #X602: NRCB<br>96-02                | Movement of heavy loads over spent fuel pool<br>- Licensee response in staff review. This would not be a restart issue   | 2    |          |        |                 |                                  | N (S)   |
| HPA #1.208;<br>Gl. 92-08; BU 92-<br>01  | Thermolag - Licensee plans to use Mecatiss<br>(an alternate material), some reanalysis of APPENDIX R. and some<br>exemption. Fire barrier tests of Mecatiss including Ampacity tests are in<br>staff review. This also may not be restart issue.   | Z    |          |        |                 | See IR 96-01; IR 96 16           | N (S)   |
| MPA# 1201:<br>GL 92-01 Rev 1.<br>Supp 1 | Reactor vessel structural integrity. RAI to licensee on 7/22/96. Only a data base issue, not a restart item.   | 2    |          |        |                 |                                  | N (S)   |
| NPA 81.604;<br>GL 96-04                 | Boraflex degradation. Licensee response is just in. Staff review to<br>commence. This may have to be addressed prior to restart because of<br>sensitivity to spent fuel pool issues.   | 2    |          |        |                 |                                  | N (S)   |
| NPA :<br>Q. 89-10                       | MOV testing & surveillance. This item is closed with the exception of IFI 94-18-09 on periodic verification, which is to be followed up after a new generic communication is issued.   | 4    |          |        |                 | See IFI 94-18-09                 | N (I)   |
| LICENSE AMENCHENT                       | RELIEF REQUESTS  |      |          | L      |                 |                                  | 1       |
| R.G. 1.97<br>Instruments                | RG 1.97 instrumentation - Sub prove stors etc - category change. License amendment may be approved by the store  | 2    |          |        |                 |                                  | H (S)   |
| Biometrics &<br>Security                | Biometric exemption to allow transpaceurity badges offsite - Staff review is expected to be complete soo   | 2    |          |        |                 |                                  | N (5)   |
| lore Flood<br>kozzle                    | Relief request RE: Core flood nozzle - Staff needs more info. PM will keep RII informed.   | 2    |          |        |                 |                                  | N (S)   |
| ITSG Tubes                              | OTSG tube testing - Licensee proposed a revised OTSG tube acceptance<br>criteria.  | 2    |          |        |                 | See V10 96-05-04                 | N (5)   |
| THER ISSUES                             |  |      |          |        |                 |                                  | 1       |
| ressurizer<br>nzzle Flaw                | During Refuel 9 a sub-surface flaw was discovered. The licensee performed<br>better inspection during R10 and found the flaw to be acceptable. The new<br>inspection results in reduced flaw size and consequently acceptance<br>criteria (which is based on ratio of flaw to thickness) changes. Staff<br>review in progress. | 2    |          |        |                 |                                  | N (S)   |
| C Loop Piping<br>nalyses                | in a survey inspection, the staff noted that certain branch pipes off the primary coolant loop were not analyzed as Code Class 1 pipe (i.e., no fatigue analysis) as required by the code. Need NRR technical branch's opinion on this.  | 2    |          |        |                 |                                  | N (S)   |

| ISSUE                  | DESCRIPTION   | AREA | NRC LEAD | IR/SER | LICENSEE STATUS | COMMENTS | NRC   |
|------------------------|---|------|----------|--------|-----------------|----------|-------|
| Criticality<br>Monitor | The licensee did not carry a previously approved exemption from part 70 (70.24?) requirements to Part 50 license. Need legal interpretation of the status of the exemption. | 2    |          |        |                 |          | N (S) |
| Sources for 1          | COURS ARELINGAN THE ETHE MUNICE 1425 VEL  | -    | -        | 1      |                 |          |       |

Sources for issues include: IFS. SIMS. NUREG 1435 (Status of Safety Issues at Licensed Power Plants), Resident's OIL. PM's OIL

NOTE: Open allegations. OI investigations, and emerging/draft issues are listed separately.

## LIST OF ACRONYMS USED

| NOV NRC Notice of Violation    | AP<br>BWST<br>C<br>CCHE<br>CFR<br>CR3 D.I.<br>CREVS<br>EA<br>EDBD<br>ECCS<br>EDG<br>EEI<br>EOP<br>FSAR<br>GL<br>ILRT<br>IFI<br>LER<br>LOCA<br>LPI<br>LTOP<br>MPA<br>MUV<br>N (D)<br>N (G)<br>N (I)<br>N (S) | Abnormal Operating Procedure<br>Borated Water Storage Tank<br>Closed<br>Control Complex Habitat is in lope<br>Code of Federal Regula<br>Crystal River 3 Design<br>Control Room Emergency Ventilation System<br>NRC Escalated Enforcement Action<br>Engineering Design Basis Document<br>Emergency Operating System<br>Emergency Operating System<br>Emergency Operating Procedure<br>Final Safety Analysis Report<br>NRC Generic Letter<br>Integrated Leak Rate Test (of the Reactor Building)<br>NRC Inspector Followup Item<br>Licensee Event Report<br>Loss of Coolant Accident<br>Low Pressure Injection<br>Low Temperature Overpressure Protection<br>NRC Multi-Plant Action<br>Makeup Valve<br>Not an NRC Restart Item (because the issue is duplicated by a restart item)<br>Not an NRC Restart Item (because trevious inspection of the issue is adequate for restart)<br>Not an NRC Restart Item (because previous inspection of the issue is adequate for restart)<br>Not an NRC Restart Item (because previous inspection of the issue is needed for safe restart) |
|--------------------------------|---|---|
| mon met rustitive suction Medo | N (S)<br>NOV<br>NPSH  | Not an NRC Restart Item (because resolution of the issue is not needed for safe restart)<br>NRC Notice of Violation<br>Net Positive Suction Head  |

| OCR<br>OP<br>PR | Operability Condition Report<br>Operating Procedure<br>Problem Report |  |
|-----------------|---|--|
| R               | NRC Restart Item  |  |
| RB              | Reactor Building  |  |
| RCS             | Reactor Coolant System  |  |
| RMG             | Radiation Monitor   |  |
| SFP             | Spent Fuel Pool   |  |
| TIA             | NRC Task Interface Agreement (between NRC offices)                    |  |
| TS              | Technical Specifications  |  |
| URI             | NRC Unresolved Item   |  |
| USQ             | Unreviewed Safety Question  |  |
| OIV             | NRC Violation   |  |
|                 |   |  |

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