Combined IR/ER/LER Report
Docket: 50-302 CRYSTAL RIVER 3

1998 Human Factors Information System Report for Plant Docket 302

```
Total Number of Hits in Date Range: 399
     From 01/01/1998 to 12/31/1998
     2x National Average: 255
                    Department
                                        Work Type
                                                       Docket/Report
Communications IR
Number of items: 13
Percent of total: 3.26
54-No communication O-Operations
                                        A-Administrative
                                                             50-302/1997020
                    O-Operations
53-Communication LT O-Operations
                                        S-Surveillance
                                                             50-302/1998001
                    O-Operations
53-Communication LT I-Instrumentation & S-Surveillance
                                                             50-302/1998001
                    I-Instrumentation &
53-Communication LT O-Operations
                                        O-Control Room Ops
                                                            50-302/1998001
                    O-Operations
53-Communication LT O-Operations
                                        O-Control Room Ops
                                                            50-302/1998001
                    O-Operations
53-Communication LT O-Operations
                                        O-Control Room Ops
                                                            50-302/1998001
                    O-Operations
53-Communication LT G-Engineering
                                        G-Design
                                                             50-302/1998001
                    G-Engineering
54-No communication O-Operations
                                        Z-Other
                                                             50-302/1998003
                    G-Engineering
53-Communication LT D-Emergency Plannin D-Emergency Drill
                                                             50-302/1998003
                    0-Operations
                                        A-Administrative
53-Communication LT O-Operations
                                                             50-302/1998004
                    O-Operations
54-No communication Z-Other
                                        A-Administrative
                                                             50-302/1998004
                    Z-Other
53-Communication LT O-Operations
                                        O-Control Room Ops 50-302/1998006
                    O-Operations
53-Communication LT D-Emergency Plannin D-Emergency Drill
                                                            50-302/1998006
                    D-Emergency Plannin
Communications ER
Number of items: 0
Percent of total: 0
Communications LER
Number of items: 3
Percent of total: .75
                                                             50-302/199800200
54-No communication G-Engineering
                                        G-Design
                    G-Engineering
53-Communication LT G-Engineering
                                        G-Design
                                                             50-302/199800500
                    G-Engineering
53-Communication LT G-Engineering
                                        G-Design
                                                             50-302/199800500
                    G-Engineering
Human-System Interface and Environm IR
Number of items: 17
Percent of total: 4.26
61-Labels LTA
                                                            50-302/1997012
                  0-Operations
                                        Z-Other
64-Placement or loc O-Operations
                                        Z-Other
                                                             50-302/1997012
61-Labels LTA
                   0-Operations
                                        B-Bal of Plant Ops 50-302/1997020
61-Labels LTA
                                       B-Bal of Plant Ops 50-302/1997020
                    O-Operations
          Page: 1
                         Date:01/13/1999
          Combined IR/ER/LER Report
          Docket: 50-302 CRYSTAL RIVER 3
    Total Number of Hits in Date Range: 399
     From 01/01/1998 to 12/31/1998
     2x National Average: 255
Details
                                        Work Type
                                                            Docket/Report
                    Department
Human-System Interface and Environm IR
Number of items: 17
Percent of Total: 4.26
61-Labels LTA
                    O-Operations
                                        B-Bal of Plant Ops 50-302/1997020
63-Size, shape or c I-Instrumentation & T-Testing
                                                             50-302/1997020
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Human Factors Information System Report

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72-Lighting LTA
                   O-Operations
                                       B-Bal of Plant Ops 50-302/1997020
                   O-Operations
                                       B-Bal of Plant Ops 50-302/1997020
61-Labels LTA
68-Too much informa O-Operations
                                       O-Control Room Ops 50-302/1998001
76-Postings LTA
                  Z-Other
                                       A-Administrative
                                                           50-302/1998001
                                       O-Control Room Ops 50-302/1998003
61-Labels LTA
                   O-Operations
                                       B-Bal of Plant Ops
61-Labels LTA
                   O-Operations
                                                           50-302/1998003
                                       B-Bal of Plant Ops 50-302/1998003
61-Labels LTA
                   O-Operations
76-Postings LTA
                   H-Health Physics
                                       H-Health Physics
                                                           50-302/1998003
                                       B-Bal of Plant Ops
61-Labels LTA
                   O-Operations
                                                           50-302/1998006
                                       B-Bal of Plant Ops
61-Labels LTA
                   O-Operations
                                                           50-302/1998007
                   O-Operations
                                       B-Bal of Plant Ops 50-302/1998007
72-Lighting LTA
Human-System Interface and Environm ER
Number of items: 0
Percent of total: 0
```

Human-System Interface and Environm LER

Number of items: 0 Percent of total: 0

Management and Supervision IR Number of items: 53

Percent of total: 13.28 40-Individual Corre G-Engineering P-Procedure Dev 50-302/1997012 40-Individual Corre G-Engineering P-Procedure Dev 50-302/1997012 32-Supervision / co O-Operations A-Administrative 50-302/1997019 48-Audits or proble M-Mechanical Z-Other 50-302/1997019 Z-Other 47-Root Cause LTA G-Engineering 50-302/1997019 40-Individual Corre G-Engineering Z-Other 50-302/1997019 44-Corrective Actio G-Engineering Z-Other 50-302/1997019 32-Supervision / co O-Operations A-Administrative 50-302/1997020 40-Individual Corre Z-Other B-Bal of Plant Ops 50-302/1997020 44-Corrective Actio G-Engineering Z-Other 50-302/1997020 H-Health Physics 40-Individual Corre H-Health Physics 50-302/1997020 40-Individual Corre O-Operations Z-Other 50-302/1998001 34-Perceived pressu O-Operations B-Bal of Plant Ops 50-302/1998001 34-Perceived pressu O-Operations O-Control Room Ops 50-302/1998001 32-Supervision / co O-Operations O-Control Room Ops 50-302/1998001 44-Corrective Actio O-Operations 50-302/1998001 Z-Other 44-Corrective Actio O-Operations Z-Other 50-302/1998001 32-Supervision / co O-Operations Z-Other 50-302/1998001 40-Individual Corre Z-Other 7-Other 50-302/1998001 41-Action not begun G-Engineering Z-Other 50-302/1998001 40-Individual Corre G-Engineering Z-Other 50-302/1998001 33-Management expec G-Engineering O-Control Room Ops 50-302/1998001

Z-Other

Z-Other

Z-Other

50-302/1998003

50-302/1998003

50-302/1998003

Page: 2 Date:01/13/1999

Combined IR/ER/LER Report
Docket: 50-302 CRYSTAL RIVER 3

Total Number of Hits in Date Range: 399

From 01/01/1998 to 12/31/1998

2x National Average: 255

40-Individual Corre O-Operations

41-Action not begun O-Operations

40-Individual Corre O-Operations

Details	Department	Work Type	Docket/Report
Management and Su Number of items: Percent of Total:	53		
41-Action not bequ		Z-Other	50-302/1998003
47-Root Cause LTA	-	Z-Other	50-302/1998003
	re I-Instrumentation &		50-302/1998003
41-Action not bequ		Z-Other	50-302/1998003
32-Supervision /	2 2	A-Administrative	50-302/1998004
40-Individual Cor	-	Z-Other	50-302/1998004
33-Management expe	ec O-Operations	A-Administrative	50-302/1998004
41-Action not beg	un O-Operations	A-Administrative	50-302/1998004
32-Supervision /	co O-Operations	S-Surveillance	50-302/1998004
33-Management exp	ec O-Operations	B-Bal of Plant Ops	50-302/1998004
44-Corrective Act	io O-Operations	Z-Other	50-302/1998004
40-Individual Cor:	re G-Engineering	Z-Other	50-302/1998004
40-Individual Cor	re G-Engineering	A-Administrative	50-302/1998004
41-Action not beg	un G-Engineering	Z-Other	50-302/1998005
33-Management exp	ec H-Health Physics	H-Health Physics	50-302/1998006
44-Corrective Act	io O-Operations	Z-Other	50-302/1998006
40-Individual Cor	re G-Engineering	A-Administrative	50-302/1998006
44-Corrective Act	2 2	Z-Other	50-302/1998006
	re H-Health Physics	Z-Other	50-302/1998006
36-Scheduling and	p W-Work Control / So	c M-Maint / Repair	50-302/1998007

Human Factors Information System Report

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32-Supervision / co W-Work Control / Sc M-Maint / Repair
                                                         50-302/1998007
40-Individual Corre O-Operations
                                     Z-Other
                                                          50-302/1998007
                                                         50-302/1998007
40-Individual Corre O-Operations
                                      Z-Other
36-Scheduling and p W-Work Control / Sc T-Testing
                                                       50-302/1998007
44-Corrective Actio O-Operations A-Administrative 50-302/1998007
40-Individual Corre P-Procedure Writers Z-Other
                                                         50-302/1998007
40-Individual Corre G-Engineering Z-Other
                                                         50-302/1998007
32-Supervision / co H-Health Physics Z-Other
                                                         50-302/1998007
Management and Supervision ER
Number of items: 0
Percent of total: 0
Management and Supervision LER
Number of items: 1
Percent of total: .25
36-Scheduling and p M-Mechanical
                                     T-Testing
                                                         50-302/199800701
Organizational Issues IR
Number of items: 3
Percent of total: .75
27-Excessive hours O-Operations
                                      O-Control Room Ops 50-302/1997020
                                      O-Control Room Ops 50-302/1997020
27-Excessive hours O-Operations
22-Poor Task Alloca O-Operations
                                      O-Control Room Ops 50-302/1998004
Organizational Issues ER
Number of items: 0
Percent of total: 0
Organizational Issues LER
Number of items: 0
Percent of total: 0
Procedures and Reference Document IR
Number of items: 88
Percent of total: 22.06
11-No procedure / r G-Engineering
                                     G-Design
                                                        50-302/1997012
         Page: 3
                       Date:01/13/1999
         Combined IR/ER/LER Report
         Docket: 50-302 CRYSTAL RIVER 3
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Total Number of Hits in Date Range: 399 From 01/01/1998 to 12/31/1998

2x National Average: 255

Details	Department	Work Type	Docket/Report
Procedures and Refe	rence Document IR		
Number of items: 8	8		
Percent of Total: 23	2.06		
13-Procedure has hu	G-Engineering	G-Design	50-302/1997012
12-Procedure techni	G-Engineering	G-Design	50-302/1997012
12-Procedure techni	G-Engineering	G-Design	50-302/1997012
11-No procedure / r	G-Engineering	G-Design	50-302/1997012
11-No procedure / r	G-Engineering	G-Design	50-302/1997012
12-Procedure techni	G-Engineering	G-Design	50-302/1997012
11-No procedure / r	G-Engineering	G-Design	50-302/1997012
12-Procedure techni	G-Engineering	G-Design	50-302/1997012
12-Procedure techni	G-Engineering	G-Design	50-302/1997012
11-No procedure / r	G-Engineering	G-Design	50-302/1997018
11-No procedure / r	G-Engineering	G-Design	50-302/1997018
12-Procedure techni	W-Work Control / Sc	F-Modification	50-302/1997019
12-Procedure techni	G-Engineering	G-Design	50-302/1997019
12-Procedure techni	G-Engineering	G-Design	50-302/1997019
12-Procedure techni	G-Engineering	G-Design	50-302/1997019
12-Procedure techni	G-Engineering	G-Design	50-302/1997019
12-Procedure techni	Z-Other	Z-Other	50-302/1997019
11-No procedure / r	G-Engineering	G-Design	50-302/1997020
13-Procedure has hu	G-Engineering	G-Design	50-302/1997020
13-Procedure has hu	G-Engineering	G-Design	50-302/1997020
11-No procedure / r	G-Engineering	G-Design	50-302/1997020
13-Procedure has hu	G-Engineering	G-Design	50-302/1997020
11-No procedure / r	G-Engineering	G-Design	50-302/1997020
13-Procedure has hu	G-Engineering	G-Design	50-302/1997020
11-No procedure / r	G-Engineering	G-Design	50-302/1997020
13-Procedure has hu	W-Work Control / Sc	T-Testing	50-302/1997020
11-No procedure / r	G-Engineering	G-Design	50-302/1997020
11-No procedure / r	G-Engineering	G-Design	50-302/1997020
13-Procedure has hu	G-Engineering	G-Design	50-302/1997020
13-Procedure has hu	H-Health Physics	A-Administrative	50-302/1997020
12-Procedure techni	H-Health Physics	A-Administrative	50-302/1997020

Page 4 of 8

Human Factors Information System Report

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12-Procedure techni H-Health Physics
                                        A-Administrative
                                                            50-302/1997020
12-Procedure techni G-Engineering
                                        G-Design
                                                            50-302/1997020
12-Procedure techni G-Engineering
                                       G-Design
                                                            50-302/1997020
13-Procedure has hu P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
13-Procedure has hu P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
14-Document develop P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
                                                            50-302/1998001
12-Procedure techni P-Procedure Writers P-Procedure Dev
14-Document develop P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
12-Procedure techni G-Engineering
                                                            50-302/1998001
                                      G-Design
13-Procedure has hu Z-Other
                                       P-Procedure Dev
                                                            50-302/1998001
13-Procedure has hu P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
13-Procedure has hu P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
13-Procedure has hu P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
12-Procedure techni P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
14-Document develop P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
12-Procedure techni P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
12-Procedure techni P-Procedure Writers P-Procedure Dev
                                                            50-302/1998001
                                   G-Design
13-Procedure has hu G-Engineering
                                                            50-302/1998001
14-Document develop G-Engineering
                                      F-Modification
                                                            50-302/1998001
                         Date: 01/13/1999
          Page: 4
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Combined IR/ER/LER Report
Docket: 50-302 CRYSTAL RIVER 3

Total Number of Hits in Date Range: 399 From 01/01/1998 to 12/31/1998 2x National Average: 255

11-No procedure / r G-Engineering

Details	Department	Work Type	Docket/Report
Procedures and Refe	rence Document IR		
Number of items: 8	8		
Percent of Total: 2	2.06		
12-Procedure techni	G-Engineering	G-Design	50-302/1998001
12-Procedure techni	G-Engineering	G-Design	50-302/1998001
12-Procedure techni	G-Engineering	G-Design	50-302/1998001
14-Document develop	G-Engineering	P-Procedure Dev	50-302/1998001
14-Document develop	G-Engineering	P-Procedure Dev	50-302/1998001
14-Document develop	G-Engineering	P-Procedure Dev	50-302/1998001
12-Procedure techni		G-Design	50-302/1998003
11-No procedure / r		G-Design	50-302/1998003
12-Procedure techni	G-Engineering	G-Design	50-302/1998003
13-Procedure has hu		G-Design	50-302/1998003
	P-Procedure Writers		50-302/1998004
	P-Procedure Writers		50-302/1998004
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-302/1998004
11-No procedure / r	O-Operations	P-Procedure Dev	50-302/1998004
	P-Procedure Writers	F-Modification	50-302/1998004
13-Procedure has hu	-	A-Administrative	50-302/1998004
11-No procedure / r		A-Administrative	50-302/1998004
11-No procedure / r		A-Administrative	50-302/1998004
13-Procedure has hu	-	A-Administrative	50-302/1998004
13-Procedure has hu		A-Administrative	50-302/1998004
	P-Procedure Writers	P-Procedure Dev	50-302/1998004
12-Procedure techni		G-Design	50-302/1998005
12-Procedure techni	5 5	G-Design	50-302/1998005
	P-Procedure Writers		50-302/1998006
-	P-Procedure Writers		50-302/1998006
	P-Procedure Writers		50-302/1998006
	P-Procedure Writers		50-302/1998006
	P-Procedure Writers		50-302/1998006
13-Procedure has hu	2 2	G-Design	50-302/1998006
12-Procedure techni	5 5	G-Design	50-302/1998006
13-Procedure has hu		F-Modification	50-302/1998006
12-Procedure techni		P-Procedure Dev	50-302/1998006
	P-Procedure Writers		50-302/1998007
13-Procedure has hu	G-Engineering	G-Design	50-302/1998007
Procedures and Refe	rence Document EP		
Number of items: 2	refice bocametre ER		
Percent of total: .	5		
	P-Procedure Writers	P-Procedure Dev	50-302/1998301
	P-Procedure Writers		50-302/1998301
Indicate hab ha			11 302, 1330301
Procedures and Refe	rence Document LER		
Number of items: 1			
Percent of total: .	25		

V-Troubleshooting 50-302/199800800

```
Training IR
  Number of items: 19
Percent of total: 4.76
 02-Training LTA T-Training
                                                                                Z-Other
                                                                                                                      50-302/1997012
                    Page: 5
                                                 Date:01/13/1999
                    Combined IR/ER/LER Report
                    Docket: 50-302 CRYSTAL RIVER 3
          Total Number of Hits in Date Range: 399
          From 01/01/1998 to 12/31/1998
           2x National Average: 255
Details
                                        Department
                                                                             Work Type
                                                                                                                   Docket/Report
Training IR
 Number of items: 19
Percent of Total: 4.76
                                                                  B-Bal of Plant Ops 50-302/1997012
01-No Training
                                     T-Training
05-Individual knowl W-Work Control / Sc M-Maint / Repair
                                                                                                                      50-302/1997019

        05-Individual knowl W-Work Control / Sc M-Maint / Repair
        50-302/1997019

        05-Individual knowl Z-Other
        M-Maint / Repair
        50-302/1997019

        05-Individual knowl G-Engineering
        O-Control Room Ops
        50-302/1997020

        02-Training LTA
        T-Training
        O-Control Room Ops
        50-302/1997020

        02-Training LTA
        T-Training
        H-Health Physics
        50-302/1997020

        05-Individual knowl O-Operations
        O-Control Room Ops
        50-302/1997020

        05-Individual knowl O-Operations
        O-Control Room Ops
        50-302/1998001

        02-Training LTA
        T-Training
        O-Control Room Ops
        50-302/1998001

        02-Training LTA
        T-Training
        A-Administrative
        50-302/1998001

        05-Individual knowl E-Electrical
        O-Control Room Ops
        50-302/1998003

        05-Individual knowl B-Electrical
        A-Administrative
        50-302/1998003

        05-Individual knowl B-Electrical
        A-Administrative
        50-302/1998003

        05-Individual knowl O-Operations
        O-Control Room Ops
        50-302/1998004

        05-Individual knowl O-Operations
        O-Control Room Ops
        50-302/1998004

        05-Individual knowl O-Operations
        O-Control Room Ops
        5
05-Individual knowl O-Operations
                                                                              O-Control Room Ops 50-302/1998006
                                      T-Training
02-Training LTA
                                                                              Z-Other
                                                                                                                        50-302/1998006
Training ER
  Number of items: 9
 Percent of total: 2.26
Percent of total: 2.26

02-Training LTA T-Training Z-Other

05-Individual knowl O-Operations Z-Other

05-Individual knowl O-Operations Z-Other

02-Training LTA T-Training Z-Other

05-Individual knowl O-Operations Z-Other

03-Training process T-Training Z-Other

03-Training process T-Training Z-Other

06-Simulator fideli T-Training Z-Other
                                                                                                                      50-302/1998301
                                                                                                                    50-302/1998301
                                                                                                                    50-302/1998301
                                                                                                               50-302/1998301
50-302/1998301
50-302/1998301
50-302/10
                                                                                                                      50-302/1998301
                                                                                                                      50-302/1998301
50-302/1998301
06-Simulator fideli T-Training
                                                                            Z-Other
                                                                                                                      50-302/1998301
Training LER
 Number of items: 7
Percent of total: 1.75
01-No Training I-Instrumentation & P-Procedure Dev
                                                                                                                       50-302/199800600
                                       W-Work Control / Sc M-Maint / Repair 50-302/199800700
02-Training LTA
02-Training LTA G-Engineering M-Maint / Repair 50-302/199800700
O2-Training LTA W-Work Control / Sc A-Administrative 50-302/199800701
O2-Training LTA G-Engineering A-Administrative 50-302/199800701
O2-Training LTA I-Instrumentation & V-Troubleshooting 50-302/199800900
O2-Training LTA I-Instrumentation & V-Troubleshooting 50-302/199800900
Work Factors IR
  Number of items: 169
Percent of total: 42.36
                                                                     P-Procedure Dev
P-Procedure Dev
 81-Work Package Qua G-Engineering
                                                                                                                        50-302/1997012
81-Work Package Qua G-Engineering
                                                                                                                      50-302/1997012
                                                                         P-Procedure Dev
81-Work Package Qua G-Engineering
                                                                                                                       50-302/1997012
81-Work Package Qua G-Engineering
                                                                              P-Procedure Dev
                                                                                                                       50-302/1997012
                                                 Date:01/13/1999
                    Page: 6
                     Combined IR/ER/LER Report
                    Docket: 50-302 CRYSTAL RIVER 3
           Total Number of Hits in Date Range: 399
          From 01/01/1998 to 12/31/1998
          2x National Average: 255
Details
                                        Department
                                                                               Work Type
                                                                                                                    Docket/Report
Work Factors IR
  Number of items: 169
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Percent of Total: 42.36
81-Work Package Qua G-Engineering
                                         P-Procedure Dev
                                                              50-302/1997012
                                                              50-302/1997012
81-Work Package Qua G-Engineering
                                         P-Procedure Dev
81-Work Package Qua G-Engineering
                                         P-Procedure Dev
                                                              50-302/1997012
83-Work practice or O-Operations
                                                              50-302/1997012
                                         Z-Other
                                         G-Design
                                                              50-302/1997012
83-Work practice or G-Engineering
83-Work practice or G-Engineering
                                                              50-302/1997012
                                         G-Design
                                         G-Design
83-Work practice or G-Engineering
                                                              50-302/1997012
                                         G-Design
83-Work practice or G-Engineering
                                                              50-302/1997012
83-Work practice or G-Engineering
                                         G-Design
                                                              50-302/1997012
83-Work practice or G-Engineering
                                         G-Design
                                                              50-302/1997012
                                         M-Maint / Repair
83-Work practice or O-Operations
                                                              50-302/1997019
84-Non-conserv. dec O-Operations M-Maint / Repair
83-Work practice or I-Instrumentation & M-Maint / Repair
                                                              50-302/1997019
                                                              50-302/1997019
83-Work practice or O-Operations
                                         A-Administrative
                                                              50-302/1997019
93-Awareness or att O-Operations
                                         A-Administrative
                                                              50-302/1997019
93-Awareness or att O-Operations
                                         A-Administrative
                                                              50-302/1997019
83-Work practice or G-Engineering
                                         G-Design
                                                              50-302/1997019
81-Work Package Qua G-Engineering
                                         G-Design
                                                              50-302/1997019
81-Work Package Qua G-Engineering
                                         G-Design
                                                              50-302/1997019
                                                              50-302/1997019
83-Work practice or G-Engineering
                                         G-Design
83-Work practice or M-Mechanical
                                         M-Maint / Repair
                                                              50-302/1997019
                                         T-Testing
93-Awareness or att G-Engineering
                                                              50-302/1997019
81-Work Package Qua G-Engineering
                                         G-Design
                                                              50-302/1997019
81-Work Package Qua G-Engineering
                                         G-Design
                                                              50-302/1997019
84-Non-conserv. dec O-Operations
                                         O-Control Room Ops
                                                              50-302/1997020
82-Briefing, prep. 0-Operations
94-Log-keeping or r 0-Operations
                                         O-Control Room Ops
                                                              50-302/1997020
                                         A-Administrative
                                                              50-302/1997020
94-Log-keeping or r O-Operations
                                                              50-302/1997020
                                         A-Administrative
                                         A-Administrative
                                                              50-302/1997020
93-Awareness or att O-Operations
83-Work practice or O-Operations
                                         A-Administrative
                                                              50-302/1997020
83-Work practice or O-Operations
                                         A-Administrative
                                                              50-302/1997020
93-Awareness or att O-Operations
                                         B-Bal of Plant Ops 50-302/1997020
                                         B-Bal of Plant Ops
93-Awareness or att O-Operations
                                                              50-302/1997020
                                         B-Bal of Plant Ops
84-Non-conserv. dec O-Operations
                                                              50-302/1997020
84-Non-conserv. dec O-Operations
                                         B-Bal of Plant Ops
                                                              50-302/1997020
                                         H-Health Physics
                                                              50-302/1997020
83-Work practice or M-Mechanical
83-Work practice or M-Mechanical
                                         H-Health Physics
                                                              50-302/1997020
83-Work practice or M-Mechanical
                                         Z-Other
                                                              50-302/1997020
                   O-Operations
                                         M-Maint / Repair
88-Tag outs LTA
                                                              50-302/1997020
88-Tag outs LTA
                   0-Operations
                                         M-Maint / Repair
                                                              50-302/1997020
83-Work practice or O-Operations
                                         A-Administrative
                                                              50-302/1997020
94-Log-keeping or r O-Operations
                                         A-Administrative
                                                              50-302/1997020
                                         M-Maint / Repair
B-Bal of Plant Ops
88-Tag outs LTA
                   0-Operations
                                                              50-302/1997020
91-Verification / p O-Operations
                                                              50-302/1997020
89-Housekeeping LTA U-Unknown
                                                              50-302/1997020
                                         K-Housekeeping
                                         O-Control Room Ops
93-Awareness or att O-Operations
                                                              50-302/1997020
89-Housekeeping LTA O-Operations
                                         B-Bal of Plant Ops
                                                              50-302/1997020
89-Housekeeping LTA U-Unknown
                                         K-Housekeeping
                                                              50-302/1997020
89-Housekeeping LTA U-Unknown
                                                              50-302/1997020
                                         K-Housekeeping
89-Housekeeping LTA U-Unknown
                                         K-Housekeeping
                                                              50-302/1997020
          Page: 7
                         Date:01/13/1999
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Combined IR/ER/LER Report
Docket: 50-302 CRYSTAL RIVER 3

Total Number of Hits in Date Range: 399 From 01/01/1998 to 12/31/1998

2x National Average: 255

Details	Deg	partment		Work Type		Docket/Report	
Work Factors	IR						
Number of it	ems: 169						
Percent of To	otal: 42.36	5					
89-Housekeep:	ing LTA U-U	Jnknown		M-Maint / R	epair	50-302/1997020	
92-Self check	LTA O-0	Operations		O-Control R	oom Ops	50-302/1997020	
83-Work pract	cice or O-C	- Operations		A-Administr	ative	50-302/1997020	
81-Work Packa	age Qua W-V	Work Control	/ Sc	M-Maint / R	epair	50-302/1997020	
93-Awareness	or att M-N	Mechanical		S-Surveilla	nce	50-302/1997020	
83-Work pract	cice or H-H	Health Physic	s	H-Health Ph	ysics	50-302/1997020	
83-Work pract	cice or H-H	Health Physic	s	A-Administr	ative	50-302/1997020	
91-Verificat:	ion / p H-I	Health Physic	s	A-Administr	ative	50-302/1997020	
83-Work pract	cice or H-H	Health Physic	s	H-Health Ph	ysics	50-302/1997020	
83-Work pract	cice or M-N	Mechanical		H-Health Ph	ysics	50-302/1997020	
83-Work pract	tice or M-N	Mechanical		H-Health Ph	ysics	50-302/1997020	
83-Work pract	cice or M-N	Mechanical		H-Health Ph	ysics	50-302/1997020	
94-Log-keepir	ng or r O-0	Operations		A-Administr	ative	50-302/1998001	
94-Log-keepir	ng or r 0-0	Operations		A-Administr	ative	50-302/1998001	
93-Awareness	or att 0-0	Operations		A-Administr	ative	50-302/1998001	
93-Awareness	or att 0-0	Operations		A-Administr	ative	50-302/1998001	
93-Awareness	or att 0-0	Operations		A-Administr	ative	50-302/1998001	

Human Factors Information System Report

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88-Tag outs LTA
                   E-Electrical
                                        F-Modification
                                                            50-302/1998001
                                                            50-302/1998001
88-Tag outs LTA
                   E-Electrical
                                        F-Modification
91-Verification / p O-Operations
                                                           50-302/1998001
                                        O-Control Room Ops
83-Work practice or O-Operations
                                        O-Control Room Ops
                                                           50-302/1998001
86-Work untimely O-Operations
                                       O-Control Room Ops 50-302/1998001
89-Housekeeping LTA U-Unknown
                                       K-Housekeeping
                                                            50-302/1998001
93-Awareness or att O-Operations
                                       B-Bal of Plant Ops 50-302/1998001
87-Non-conservative O-Operations
                                        V-Troubleshooting
                                                            50-302/1998001
                                       O-Control Room Ops
                                                           50-302/1998001
93-Awareness or att O-Operations
84-Non-conserv. dec O-Operations
                                       O-Control Room Ops
                                                           50-302/1998001
93-Awareness or att O-Operations
                                       O-Control Room Ops
                                                           50-302/1998001
83-Work practice or O-Operations
                                        O-Control Room Ops 50-302/1998001
82-Briefing, prep. O-Operations
                                        O-Control Room Ops
                                                           50-302/1998001
93-Awareness or att G-Engineering
                                       G-Design
                                                            50-302/1998001
86-Work untimely
                 Z-Other
                                        A-Administrative
                                                            50-302/1998001
83-Work practice or G-Engineering
                                       G-Design
                                                            50-302/1998001
93-Awareness or att G-Engineering
                                        F-Modification
                                                            50-302/1998001
93-Awareness or att G-Engineering
                                                            50-302/1998001
                                        P-Procedure Dev
93-Awareness or att G-Engineering
                                        F-Modification
                                                            50-302/1998001
                                        F-Modification
93-Awareness or att G-Engineering
                                                            50-302/1998001
93-Awareness or att G-Engineering
                                        F-Modification
                                                            50-302/1998001
93-Awareness or att G-Engineering
                                                            50-302/1998001
                                        F-Modification
                                        O-Control Room Ops 50-302/1998001
84-Non-conserv. dec G-Engineering
83-Work practice or G-Engineering
                                        F-Modification
                                                            50-302/1998001
93-Awareness or att G-Engineering
                                        F-Modification
                                                            50-302/1998001
                                                            50-302/1998001
93-Awareness or att G-Engineering
                                        P-Procedure Dev
88-Tag outs LTA
                  0-Operations
                                       M-Maint / Repair
                                                            50-302/1998003
91-Verification / p O-Operations
                                       M-Maint / Repair
                                                            50-302/1998003
                                       M-Maint / Repair
88-Tag outs LTA O-Operations
                                                            50-302/1998003
83-Work practice or O-Operations
                                       A-Administrative
                                                            50-302/1998003
         Page: 8
                        Date: 01/13/1999
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Combined IR/ER/LER Report
Docket: 50-302 CRYSTAL RIVER 3

Total Number of Hits in Date Range: 399 From 01/01/1998 to 12/31/1998

2x National Average: 255

Department Details Work Type Docket/Report Work Factors IR Number of items: 169 Percent of Total: 42.36 93-Awareness or att O-Operations O-Control Room Ops 50-302/1998003 84-Non-conserv. dec O-Operations O-Control Room Ops 50-302/1998003 84-Non-conserv. dec O-Operations Z-Other 50-302/1998003 93-Awareness or att O-Operations Z-Other 50-302/1998003 83-Work practice or M-Mechanical M-Maint / Repair 50-302/1998003 83-Work practice or M-Mechanical M-Maint / Repair 50-302/1998003 84-Non-conserv. dec G-Engineering V-Troubleshooting 50-302/1998003 O-Control Room Ops 50-302/1998003 93-Awareness or att G-Engineering 93-Awareness or att G-Engineering G-Design 50-302/1998003 93-Awareness or att G-Engineering A-Administrative 50-302/1998003 93-Awareness or att O-Operations O-Control Room Ops 50-302/1998003 89-Housekeeping LTA H-Health Physics K-Housekeeping 50-302/1998003 83-Work practice or C-Chemistry B-Bal of Plant Ops 50-302/1998003 B-Bal of Plant Ops 93-Awareness or att C-Chemistry 50-302/1998003 93-Awareness or att O-Operations S-Surveillance 50-302/1998004 93-Awareness or att O-Operations S-Surveillance 50-302/1998004 93-Awareness or att O-Operations S-Surveillance 50-302/1998004 O-Control Room Ops 94-Log-keeping or r O-Operations 50-302/1998004 O-Control Room Ops 50-302/1998004 94-Log-keeping or r O-Operations 93-Awareness or att W-Work Control / Sc M-Maint / Repair 50-302/1998004 94-Log-keeping or r O-Operations M-Maint / Repair 50-302/1998004 94-Log-keeping or r O-Operations A-Administrative 50-302/1998004 84-Non-conserv. dec O-Operations O-Control Room Ops 50-302/1998004 94-Log-keeping or r O-Operations A-Administrative 50-302/1998004 92-Self check LTA O-Operations O-Control Room Ops 50-302/1998004 O-Control Room Ops 93-Awareness or att O-Operations 50-302/1998004 83-Work practice or O-Operations S-Surveillance 50-302/1998004 84-Non-conserv. dec O-Operations S-Surveillance 50-302/1998004 84-Non-conserv. dec O-Operations S-Surveillance 50-302/1998004 93-Awareness or att W-Work Control / Sc M-Maint / Repair 50-302/1998004 91-Verification / p G-Engineering F-Modification 50-302/1998004 93-Awareness or att G-Engineering A-Administrative 50-302/1998004 81-Work Package Qua G-Engineering G-Design 50-302/1998005 81-Work Package Qua G-Engineering G-Design 50-302/1998005 50-302/1998005 93-Awareness or att G-Engineering A-Administrative

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Human Factors Information System Report
83-Work practice or G-Engineering
                                                           50-302/1998005
83-Work practice or O-Operations
                                       H-Health Physics
                                                           50-302/1998006
94-Log-keeping or r O-Operations
                                       A-Administrative
                                                           50-302/1998006
83-Work practice or O-Operations
                                       B-Bal of Plant Ops 50-302/1998006
94-Log-keeping or r O-Operations
                                       B-Bal of Plant Ops 50-302/1998006
                                       W-Troubleshooting
83-Work practice or O-Operations
                                                           50-302/1998006
83-Work practice or O-Operations
                                       V-Troubleshooting
                                                          50-302/1998006
84-Non-conserv. dec O-Operations
                                       Z-Other
                                                           50-302/1998006
                                       V-Troubleshooting
                                                           50-302/1998006
85-Team interaction O-Operations
86-Work untimely
                 0-Operations
                                       O-Control Room Ops 50-302/1998006
94-Log-keeping or r O-Operations
                                       O-Control Room Ops 50-302/1998006
83-Work practice or O-Operations
                                       A-Administrative
                                                           50-302/1998007
83-Work practice or O-Operations
                                       A-Administrative
                                                           50-302/1998007
83-Work practice or O-Operations
                                       A-Administrative
                                                           50-302/1998007
83-Work practice or O-Operations
                                                           50-302/1998007
                                       A-Administrative
                        Date:01/13/1999
         Page: 9
          Combined IR/ER/LER Report
         Docket: 50-302 CRYSTAL RIVER 3
    Total Number of Hits in Date Range: 399
     From 01/01/1998 to 12/31/1998
     2x National Average: 255
Details
                   Department
                                       Work Type
                                                           Docket/Report
Work Factors IR
Number of items: 169
Percent of Total: 42.36
83-Work practice or O-Operations
                                       M-Maint / Repair
                                                           50-302/1998007
93-Awareness or att W-Work Control / Sc M-Maint / Repair
                                                           50-302/1998007
93-Awareness or att W-Work Control / Sc M-Maint / Repair
                                                           50-302/1998007
                                 M-Maint / Repair
93-Awareness or att O-Operations
                                                           50-302/1998007
                                      M-Maint / Repair
93-Awareness or att O-Operations
                                                           50-302/1998007
92-Self check LTA O-Operations
                                     M-Maint / Repair
                                                           50-302/1998007
                                     M-Maint / Repair
83-Work practice or O-Operations
                                                           50-302/1998007
                                  M-Maint / Repair
91-Verification / p O-Operations
                                                           50-302/1998007
84-Non-conserv. dec O-Operations
                                                           50-302/1998007
82-Briefing, prep. W-Work Control / Sc M-Maint / Repair
                                                           50-302/1998007
93-Awareness or att O-Operations S-Surveillance
                                                           50-302/1998007
84-Non-conserv. dec O-Operations
                                       O-Control Room Ops 50-302/1998007
89-Housekeeping LTA U-Unknown
                                      K-Housekeeping
                                                           50-302/1998007
93-Awareness or att P-Procedure Writers P-Procedure Dev
                                                           50-302/1998007
91-Verification / p P-Procedure Writers P-Procedure Dev
                                                           50-302/1998007
Work Factors ER
Number of items: 7
Percent of total: 1.75
                                       Z-Other
                                                           50-302/1998301
93-Awareness or att O-Operations
81-Work Package Qua T-Training
                                       Z-Other
                                                           50-302/1998301
83-Work practice or T-Training
                                       Z-Other
                                                           50-302/1998301
83-Work practice or T-Training
                                      Z-Other
                                                          50-302/1998301
83-Work practice or T-Training
                                      Z-Other
                                                          50-302/1998301
93-Awareness or att T-Training
                                      Z-Other
                                                          50-302/1998301
93-Awareness or att T-Training
                                      Z-Other
                                                          50-302/1998301
Work Factors LER
Number of items: 7
Percent of total: 1.75
87-Non-conservative G-Engineering
                                       G-Design
                                                           50-302/199800200
                                       P-Procedure Dev
                                                           50-302/199800200
87-Non-conservative G-Engineering
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Z-Other

G-Design

T-Testing

Date:01/13/1999

M-Maint / Repair

M-Maint / Repair

84-Non-conserv. dec G-Engineering

83-Work practice or E-Electrical

91-Verification / p E-Electrical

81-Work Package Qua G-Engineering

81-Work Package Qua M-Mechanical

Page: 10

[End of File for Plant Docket 302 (1998)]

50-302/199800200

50-302/199800300

50-302/199800300

50-302/199800400

50-302/199800701