Combined IR/ER/LER Report Docket: 50-293 PILGRIM 1

## 1999 Human Factors Information System Report for Plant Docket 293

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Total Number of Hits in Date Range: 121
     From 01/01/1999 to 12/31/1999
     2x National Average: 226
                    Department
                                        Work Type
                                                       Docket/Report
Communications IR
Number of items: 6
Percent of total: 4.96
54-No communication O-Operations
                                        O-Control Room Ops 50-293/1999001
                    O-Operations
53-Communication LT O-Operations
                                        O-Control Room Ops
                                                            50-293/1999002
                    O-Operations
53-Communication LT G-Engineering
                                        O-Control Room Ops
                                                            50-293/1999002
                    G-Engineering
53-Communication LT G-Engineering
                                        M-Maint / Repair
                                                            50-293/1999002
                    G-Engineering
                                        Z-Other
53-Communication LT O-Operations
                                                            50-293/1999006
                    O-Operations
53-Communication LT O-Operations
                                        Z-Other
                                                            50-293/1999006
                    O-Operations
Communications ER
Number of items: 0
Percent of total: 0
Communications LER
Number of items: 2
Percent of total: 1.65
54-No communication O-Operations
                                        O-Control Room Ops 50-293/199901000
                    O-Operations
54-No communication O-Operations
                                        O-Control Room Ops 50-293/199901000
                    O-Operations
Human-System Interface and Environm IR
Number of items: 1
Percent of total: .83
                                        M-Maint / Repair
                                                            50-293/1998011
75-Work area LTA
                  E-Electrical
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: 14
Percent of total: 11.57
32-Supervision / co G-Engineering
                                        T-Testing
                                                            50-293/1998011
                                                            50-293/1999001
41-Action not begun I-Instrumentation & Z-Other
48-Audits or proble W-Work Control / Sc Z-Other
                                                            50-293/1999001
47-Root Cause LTA W-Work Control / Sc Z-Other
                                                            50-293/1999002
32-Supervision / co O-Operations
                                      M-Maint / Repair
                                                            50-293/1999003
32-Supervision / co O-Operations
                                       M-Maint / Repair
                                                            50-293/1999003
32-Supervision / co M-Mechanical
                                      M-Maint / Repair
                                                            50-293/1999004
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    Total Number of Hits in Date Range: 121
     From 01/01/1999 to 12/31/1999
     2x National Average: 226
Details
                                        Work Type
                                                            Docket/Report
                    Department
Management and Supervision IR
Number of items: 14
Percent of Total: 11.57
32-Supervision / co M-Mechanical
                                                            50-293/1999004
                                        M-Maint / Repair
41-Action not begun G-Engineering
                                        Z-Other
                                                            50-293/1999005
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## Human Factors Information System Report

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33-Management expec G-Engineering
                                         G-Design
                                                             50-293/1999005
32-Supervision / co O-Operations
32-Supervision / co O-Operations
                                         Z-Other
                                                             50-293/1999006
                                                             50-293/1999006
                                        Z-Other
40-Individual Corre O-Operations
                                        Z-Other
                                                             50-293/1999006
                                        Z-Other
41-Action not begun O-Operations
                                                             50-293/1999007
Management and Supervision ER
Number of items: 0
Percent of total: 0
Management and Supervision LER
Number of items: 0
Percent of total: 0
Organizational Issues IR
Number of items: 3
Percent of total: 2.48
28-Frequent use of C-Chemistry
                                        B-Bal of Plant Ops 50-293/1999001
28-Frequent use of O-Operations
                                        O-Control Room Ops 50-293/1999006
                                        O-Control Room Ops 50-293/1999006
28-Frequent use of O-Operations
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: 19
Percent of total: 15.7
12-Procedure techni P-Procedure Writers F-Modification
                                                             50-293/1998011
12-Procedure techni P-Procedure Writers P-Procedure Dev
                                                             50-293/1998011
13-Procedure has hu G-Engineering
                                                             50-293/1998011
                                        G-Design
12-Procedure techni P-Procedure Writers P-Procedure Dev
                                                             50-293/1999001
13-Procedure has hu P-Procedure Writers P-Procedure Dev
                                                             50-293/1999001
12-Procedure techni P-Procedure Writers P-Procedure Dev
                                                             50-293/1999003
13-Procedure has hu P-Procedure Writers P-Procedure Dev
                                                             50-293/1999003
13-Procedure has hu G-Engineering
                                        G-Design
                                                             50-293/1999003
13-Procedure has hu G-Engineering
                                        G-Design
                                                             50-293/1999003
13-Procedure has hu G-Engineering
                                                             50-293/1999003
                                        G-Design
12-Procedure techni G-Engineering
                                        G-Design
                                                             50-293/1999005
13-Procedure has hu G-Engineering
                                        G-Design
                                                             50-293/1999005
11-No procedure / r G-Engineering
                                        G-Design
                                                             50-293/1999005
11-No procedure / r G-Engineering
                                        G-Design
                                                             50-293/1999005
12-Procedure techni G-Engineering
                                        G-Design
                                                             50-293/1999005
13-Procedure has hu G-Engineering
                                        G-Design
                                                             50-293/1999005
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Details
                                         Work Type
                                                             Docket/Report
Procedures and Reference Document IR
Number of items: 19
Percent of Total: 15.7
                                         F-Modification
                                                             50-293/1999006
11-No procedure / r G-Engineering
13-Procedure has hu G-Engineering
                                         G-Design
                                                             50-293/1999006
11-No procedure / r G-Engineering
                                        G-Design
                                                             50-293/1999007
Procedures and Reference Document ER
Number of items: 0
Percent of total: 0
Procedures and Reference Document LER
Number of items: 3
Percent of total: 2.48
12-Procedure techni E-Electrical
                                        T-Testing
                                                             50-293/199900500
12-Procedure techni G-Engineering
                                                             50-293/199900700
                                        G-Design
12-Procedure techni O-Operations
                                        V-Troubleshooting
                                                             50-293/199900900
Training IR
Number of items: 2
Percent of total: 1.65
02-Training LTA
                   T-Training
                                        O-Control Room Ops 50-293/1999001
05-Individual knowl E-Electrical
                                        M-Maint / Repair
                                                             50-293/1999003
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Training ER
Number of items: 0
Percent of total: 0
Training LER
Number of items: 0
Percent of total: 0
Work Factors IR
Number of items: 67
Percent of total: 55.37
93-Awareness or att O-Operations
                                        O-Control Room Ops 50-293/1998011
93-Awareness or att O-Operations
                                        O-Control Room Ops 50-293/1998011
94-Log-keeping or r O-Operations
                                        O-Control Room Ops 50-293/1998011
                                        O-Control Room Ops 50-293/1998011
B-Bal of Plant Ops 50-293/1998011
94-Log-keeping or r O-Operations
84-Non-conserv. dec O-Operations
82-Briefing, prep. G-Engineering
                                        T-Testing
                                                            50-293/1998011
84-Non-conserv. dec G-Engineering
                                        T-Testing
                                                           50-293/1998011
84-Non-conserv. dec G-Engineering
                                        T-Testing
                                                            50-293/1998011
                                                           50-293/1998011
83-Work practice or G-Engineering
                                        G-Design
93-Awareness or att H-Health Physics
                                       H-Health Physics 50-293/1998011
                                        B-Bal of Plant Ops 50-293/1998011
91-Verification / p O-Operations
94-Log-keeping or r O-Operations
                                        O-Control Room Ops 50-293/1999001
94-Log-keeping or r G-Engineering
                                       O-Control Room Ops 50-293/1999001
93-Awareness or att C-Chemistry
                                        B-Bal of Plant Ops 50-293/1999001
                                        B-Bal of Plant Ops
92-Self check LTA C-Chemistry
                                                            50-293/1999001
93-Awareness or att O-Operations
                                        O-Control Room Ops
                                                            50-293/1999002
93-Awareness or att G-Engineering
                                       O-Control Room Ops 50-293/1999002
81-Work Package Qua W-Work Control / Sc M-Maint / Repair
                                                            50-293/1999002
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     2x National Average: 226
Details
                                       Work Type
                    Department
                                                            Docket/Report
Work Factors IR
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Number of items: 67 Percent of Total: 55.37 91-Verification / p W-Work Control / Sc M-Maint / Repair 50-293/1999002 81-Work Package Qua W-Work Control / Sc M-Maint / Repair 50-293/1999002 84-Non-conserv. dec W-Work Control / Sc M-Maint / Repair 88-Tag outs LTA O-Operations M-Maint / Repair 50-293/1999002 50-293/1999003 M-Maint / Repair 88-Tag outs LTA 0-Operations 50-293/1999003 M-Maint / Repair M-Maint / Repair M-Maint / Repair 88-Tag outs LTA O-Operations 50-293/1999003 93-Awareness or att O-Operations 50-293/1999003 93-Awareness or att O-Operations 50-293/1999003 83-Work practice or O-Operations S-Surveillance 50-293/1999003 93-Awareness or att O-Operations A-Administrative 50-293/1999003 81-Work Package Qua G-Engineering F-Modification 50-293/1999003 93-Awareness or att G-Engineering F-Modification 50-293/1999003 84-Non-conserv. dec O-Operations O-Control Room Ops 50-293/1999004 92-Self check LTA 0-Operations O-Control Room Ops 50-293/1999004 O-Control Room Ops 50-293/1999004 O-Operations 88-Tag outs LTA F-Modification 84-Non-conserv. dec O-Operations 50-293/1999004 81-Work Package Qua G-Engineering F-Modification 50-293/1999004 83-Work practice or M-Mechanical M-Maint / Repair 50-293/1999004 M-Maint / Repair 93-Awareness or att Q-QA/QC 50-293/1999004 M-Maint / Repair 93-Awareness or att M-Mechanical 50-293/1999004 83-Work practice or M-Mechanical M-Maint / Repair 50-293/1999004 M-Maint / Repair 83-Work practice or M-Mechanical 50-293/1999004 93-Awareness or att M-Mechanical M-Maint / Repair 50-293/1999004 F-Modification 81-Work Package Qua G-Engineering 50-293/1999004 85-Team interaction G-Engineering F-Modification 50-293/1999004 93-Awareness or att G-Engineering F-Modification 50-293/1999004 91-Verification / p O-Operations B-Bal of Plant Ops 50-293/1999005 91-Verification / p O-Operations 91-Verification / p O-Operations B-Bal of Plant Ops 50-293/1999005 B-Bal of Plant Ops 50-293/1999005 91-Verification / p O-Operations B-Bal of Plant Ops 50-293/1999005 B-Bal of Plant Ops 50-293/1999005 B-Bal of Plant Ops 50-293/1999005 91-Verification / p 0-Operations 91-Verification / p O-Operations 93-Awareness or att G-Engineering G-Design 50-293/1999005 50-293/1999005

G-Design

93-Awareness or att G-Engineering

## Human Factors Information System Report

93-Awareness or att G-Engineering

Percent of Total: 3.31

84-Non-conserv. dec G-Engineering

93-Awareness or att O-Operations

83-Work practice or O-Operations

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G-Design
83-Work practice or G-Engineering
                                                          50-293/1999005
93-Awareness or att G-Engineering
                                       G-Design
                                                          50-293/1999005
                                      H-Health Physics 50-293/1999005
83-Work practice or U-Unknown
93-Awareness or att H-Health Physics
                                    H-Health Physics 50-293/1999005
                                      Z-Other
                                                          50-293/1999006
85-Team interaction O-Operations
                                                          50-293/1999006
85-Team interaction O-Operations
                                      Z-Other
85-Team interaction O-Operations
                                     Z-Other
                                                          50-293/1999006
                                     B-Bal of Plant Ops 50-293/1999007
85-Team interaction O-Operations
                                      B-Bal of Plant Ops 50-293/1999007
85-Team interaction O-Operations
85-Team interaction O-Operations
                                     B-Bal of Plant Ops 50-293/1999007
Work Factors ER
Number of items: 0
Percent of total: 0
Work Factors LER
Number of items: 4
Percent of total: 3.31
84-Non-conserv. dec E-Electrical
                                      T-Testing
                                                        50-293/199900500
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          Combined IR/ER/LER Report
         Docket: 50-293 PILGRIM 1
    Total Number of Hits in Date Range: 121
    From 01/01/1999 to 12/31/1999
    2x National Average: 226
Details
                   Department
                                      Work Type
                                                          Docket/Report
Work Factors LER
Number of items: 4
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Date:03/17/2000

G-Design

G-Design

[End of File for Plant Docket 293 (1999)]

O-Control Room Ops 50-293/199901000

O-Control Room Ops 50-293/199901000

50-293/199900700

50-293/1999005