

1997 Human Factors Information System Report for Plant Docket 361

Combined IR/ER/LER Report
Docket: 50-361 SAN ONOFRE 2

Total Number of Hits in Date Range: 156
From 01/01/1997 to 12/31/1997
2x National Average: 213

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 15			
Percent of total: 9.62			
52-Communication un	O-Operations	U-Unknown	50-361/1996018
53-Communication LT	O-Operations	U-Unknown	50-361/1997002
53-Communication LT	O-Operations	U-Unknown	50-361/1997002
53-Communication LT	O-Operations	U-Unknown	50-361/1997002
53-Communication LT	O-Operations	U-Unknown	50-361/1997002
53-Communication LT	G-Engineering	A-Administrative	50-361/1997005
	G-Engineering		
54-No communication	G-Engineering	G-Design	50-361/1997005
	G-Engineering		
54-No communication	G-Engineering	A-Administrative	50-361/1997011
	G-Engineering		
51-Misunderstood /	O-Operations	O-Control Room Ops	50-361/1997017
	O-Operations		
53-Communication LT	G-Engineering	F-Modification	50-361/1997019
	G-Engineering		
54-No communication	M-Mechanical	H-Health Physics	50-361/1997019
	M-Mechanical		
53-Communication LT	Z-Other	Z-Other	50-361/1997019
	Z-Other		
53-Communication LT	O-Operations	Z-Other	50-361/1997020
	O-Operations		
53-Communication LT	O-Operations	Z-Other	50-361/1997020
	O-Operations		
53-Communication LT	M-Mechanical	S-Surveillance	50-361/1997023
	M-Mechanical		

Communications ER
Number of items: 0
Percent of total: 0

Communications LER
Number of items: 3
Percent of total: 1.92

53-Communication LT	O-Operations	T-Testing	50-361/199700100
53-Communication LT	O-Operations	T-Testing	50-361/199700100
53-Communication LT	G-Engineering	T-Testing	50-361/199700100

Human-System Interface and Environm IR
Number of items: 0
Percent of total: 0

Human-System Interface and Environm ER
Number of items: 0
Percent of total: 0

Human-System Interface and Environm LER
Number of items: 3
Percent of total: 1.92

75-Work area LTA	O-Operations	T-Testing	50-361/199700100
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Human-System Interface and Environm LER
Number of items: 3
Percent of Total: 1.92

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75-Work area LTA	O-Operations	T-Testing	50-361/199700100
75-Work area LTA	G-Engineering	T-Testing	50-361/199700100

Management and Supervision IR

Number of items: 17

Percent of total: 10.9

43-Operating Experi	G-Engineering	U-Unknown	50-361/1996013
32-Supervision / co	O-Operations	O-Control Room Ops	50-361/1997005
32-Supervision / co	O-Operations	O-Control Room Ops	50-361/1997005
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-361/1997006
33-Management expec	O-Operations	Q-Fire Protection	50-361/1997006
48-Audits or proble	O-Operations	Q-Fire Protection	50-361/1997006
32-Supervision / co	M-Mechanical	M-Maint / Repair	50-361/1997008
40-Individual Corre	G-Engineering	P-Procedure Dev	50-361/1997009
40-Individual Corre	G-Engineering	Z-Other	50-361/1997009
33-Management expec	B-Plant Management	A-Administrative	50-361/1997012
41-Action not begun	G-Engineering	Z-Other	50-361/1997015
32-Supervision / co	O-Operations	O-Control Room Ops	50-361/1997017
33-Management expec	O-Operations	O-Control Room Ops	50-361/1997017
32-Supervision / co	E-Electrical	M-Maint / Repair	50-361/1997017
40-Individual Corre	G-Engineering	F-Modification	50-361/1997019
32-Supervision / co	O-Operations	Z-Other	50-361/1997020
41-Action not begun	T-Training	Z-Other	50-361/1997020

Management and Supervision ER

Number of items: 0

Percent of total: 0

Management and Supervision LER

Number of items: 1

Percent of total: .64

32-Supervision / co	O-Operations	O-Control Room Ops	50-361/199701700
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Organizational Issues IR

Number of items: 0

Percent of total: 0

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: 20

Percent of total: 12.82

14-Document develop	G-Engineering	U-Unknown	50-361/1996013
11-No procedure / r	O-Operations	U-Unknown	50-361/1997002

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Procedures and Reference Document IR

Number of items: 20

Percent of Total: 12.82

11-No procedure / r	M-Mechanical	U-Unknown	50-361/1997002
12-Procedure techni	I-Instrumentation &	U-Unknown	50-361/1997002
13-Procedure has hu	G-Engineering	G-Design	50-361/1997005
12-Procedure techni	G-Engineering	G-Design	50-361/1997005
12-Procedure techni	G-Engineering	G-Design	50-361/1997005
12-Procedure techni	G-Engineering	G-Design	50-361/1997006
13-Procedure has hu	G-Engineering	G-Design	50-361/1997009
13-Procedure has hu	G-Engineering	G-Design	50-361/1997009
12-Procedure techni	G-Engineering	G-Design	50-361/1997009
12-Procedure techni	G-Engineering	G-Design	50-361/1997009
12-Procedure techni	G-Engineering	G-Design	50-361/1997009
12-Procedure techni	G-Engineering	G-Design	50-361/1997009
12-Procedure techni	G-Engineering	G-Design	50-361/1997009
12-Procedure techni	G-Engineering	G-Design	50-361/1997009
13-Procedure has hu	G-Engineering	G-Design	50-361/1997017
12-Procedure techni	G-Engineering	G-Design	50-361/1997017
12-Procedure techni	G-Engineering	G-Design	50-361/1997017
12-Procedure techni	G-Engineering	G-Design	50-361/1997017
11-No procedure / r	O-Operations	A-Administrative	50-361/1997020

Procedures and Reference Document ER

Number of items: 0
Percent of total: 0

Procedures and Reference Document LER

Number of items: 10
Percent of total: 6.41

12-Procedure techni	O-Operations	T-Testing	50-361/199700100
13-Procedure has hu	O-Operations	T-Testing	50-361/199700100
12-Procedure techni	O-Operations	T-Testing	50-361/199700100
13-Procedure has hu	O-Operations	T-Testing	50-361/199700100
12-Procedure techni	G-Engineering	T-Testing	50-361/199700100
13-Procedure has hu	G-Engineering	T-Testing	50-361/199700100
12-Procedure techni	O-Operations	A-Administrative	50-361/199700700
12-Procedure techni	O-Operations	T-Testing	50-361/199700700
13-Procedure has hu	O-Operations	T-Testing	50-361/199701100
13-Procedure has hu	O-Operations	O-Control Room Ops	50-361/199701700

Training IR

Number of items: 13
Percent of total: 8.33

05-Individual knowl	O-Operations	U-Unknown	50-361/1997002
02-Training LTA	T-Training	O-Control Room Ops	50-361/1997005
05-Individual knowl	O-Operations	O-Control Room Ops	50-361/1997005
05-Individual knowl	O-Operations	O-Control Room Ops	50-361/1997005
05-Individual knowl	O-Operations	O-Control Room Ops	50-361/1997005
02-Training LTA	T-Training	S-Surveillance	50-361/1997005
02-Training LTA	T-Training	H-Health Physics	50-361/1997005
02-Training LTA	T-Training	M-Maint / Repair	50-361/1997006
01-No Training	O-Operations	Q-Fire Protection	50-361/1997006
05-Individual knowl	O-Operations	O-Control Room Ops	50-361/1997017

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Training IR

Number of items: 13
Percent of Total: 8.33

04-Task Qualificati	E-Electrical	M-Maint / Repair	50-361/1997017
02-Training LTA	T-Training	Z-Other	50-361/1997019
03-Training process	T-Training	Z-Other	50-361/1997020

Training ER

Number of items: 0
Percent of total: 0

Training LER

Number of items: 1
Percent of total: .64

02-Training LTA	O-Operations	O-Control Room Ops	50-361/199701700
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Work Factors IR

Number of items: 64
Percent of total: 41.03

87-Non-conservati	G-Engineering	U-Unknown	50-361/1996013
87-Non-conservati	O-Operations	U-Unknown	50-361/1996018
91-Verification / p	O-Operations	U-Unknown	50-361/1996018
87-Non-conservati	M-Mechanical	U-Unknown	50-361/1997002
84-Non-conserv. dec	I-Instrumentation &	U-Unknown	50-361/1997002
84-Non-conserv. dec	M-Mechanical	U-Unknown	50-361/1997002
84-Non-conserv. dec	G-Engineering	U-Unknown	50-361/1997002
84-Non-conserv. dec	U-Unknown	U-Unknown	50-361/1997002
87-Non-conservati	M-Mechanical	U-Unknown	50-361/1997002
92-Self check LTA	O-Operations	U-Unknown	50-361/1997002
83-Work practice or	O-Operations	O-Control Room Ops	50-361/1997005
93-Awareness or att	O-Operations	O-Control Room Ops	50-361/1997005
83-Work practice or	O-Operations	O-Control Room Ops	50-361/1997005
82-Briefing, prep.	O-Operations	O-Control Room Ops	50-361/1997005
81-Work Package Qua	W-Work Control / Sc	S-Surveillance	50-361/1997005
84-Non-conserv. dec	G-Engineering	G-Design	50-361/1997005
81-Work Package Qua	W-Work Control / Sc	M-Maint / Repair	50-361/1997005
89-Housekeeping LTA	U-Unknown	M-Maint / Repair	50-361/1997006
89-Housekeeping LTA	U-Unknown	M-Maint / Repair	50-361/1997006
86-Work untimely	G-Engineering	A-Administrative	50-361/1997006

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83-Work practice or Z-Other	Z-Other	50-361/1997006
83-Work practice or U-Unknown	Q-Fire Protection	50-361/1997006
83-Work practice or M-Mechanical	M-Maint / Repair	50-361/1997008
83-Work practice or Q-QA/QC	T-Testing	50-361/1997008
93-Awareness or att G-Engineering	M-Maint / Repair	50-361/1997009
83-Work practice or G-Engineering	A-Administrative	50-361/1997011
83-Work practice or B-Plant Management	A-Administrative	50-361/1997012
83-Work practice or B-Plant Management	A-Administrative	50-361/1997012
83-Work practice or B-Plant Management	A-Administrative	50-361/1997012
91-Verification / p G-Engineering	F-Modification	50-361/1997012
83-Work practice or U-Unknown	Z-Other	50-361/1997012
93-Awareness or att O-Operations	O-Control Room Ops	50-361/1997017
84-Non-conserv. dec B-Plant Management	O-Control Room Ops	50-361/1997017
84-Non-conserv. dec O-Operations	O-Control Room Ops	50-361/1997017

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Work Factors IR			
Number of items: 64			
Percent of Total: 41.03			
93-Awareness or att O-Operations		O-Control Room Ops	50-361/1997017
83-Work practice or O-Operations		O-Control Room Ops	50-361/1997017
82-Briefing, prep. O-Operations		O-Control Room Ops	50-361/1997017
83-Work practice or G-Engineering		M-Maint / Repair	50-361/1997017
83-Work practice or G-Engineering		M-Maint / Repair	50-361/1997017
91-Verification / p O-Operations		B-Bal of Plant Ops	50-361/1997019
91-Verification / p O-Operations		B-Bal of Plant Ops	50-361/1997019
91-Verification / p O-Operations		B-Bal of Plant Ops	50-361/1997019
93-Awareness or att O-Operations		O-Control Room Ops	50-361/1997019
83-Work practice or E-Electrical		T-Testing	50-361/1997019
84-Non-conserv. dec G-Engineering		G-Design	50-361/1997019
87-Non-conservati G-Engineering	Z-Other		50-361/1997019
84-Non-conserv. dec G-Engineering	Z-Other		50-361/1997019
84-Non-conserv. dec H-Health Physics	A-Administrative		50-361/1997019
83-Work practice or Z-Other	A-Administrative		50-361/1997019
83-Work practice or O-Operations	Z-Other		50-361/1997020
83-Work practice or O-Operations	Z-Other		50-361/1997020
93-Awareness or att T-Training	Z-Other		50-361/1997020
91-Verification / p T-Training	Z-Other		50-361/1997020
86-Work untimely T-Training	A-Administrative		50-361/1997020
94-Log-keeping or r O-Operations	O-Control Room Ops		50-361/1997023
86-Work untimely O-Operations	Z-Other		50-361/1997023
93-Awareness or att O-Operations	Z-Other		50-361/1997023
83-Work practice or I-Instrumentation &	C-Calibration		50-361/1997023
91-Verification / p H-Health Physics	H-Health Physics		50-361/1997023
93-Awareness or att O-Operations	O-Control Room Ops		50-361/1997025
93-Awareness or att O-Operations	O-Control Room Ops		50-361/1997025
83-Work practice or W-Work Control / Sc	M-Maint / Repair		50-361/1997025
93-Awareness or att M-Mechanical	M-Maint / Repair		50-361/1997025
83-Work practice or G-Engineering	G-Design		50-361/1997025

Work Factors ER
Number of items: 0
Percent of total: 0

Work Factors LER
Number of items: 9
Percent of total: 5.77

87-Non-conservati O-Operations	T-Testing	50-361/199700100
87-Non-conservati O-Operations	T-Testing	50-361/199700100
87-Non-conservati G-Engineering	T-Testing	50-361/199700100
87-Non-conservati O-Operations	O-Control Room Ops	50-361/199700200
87-Non-conservati O-Operations	O-Control Room Ops	50-361/199700800
87-Non-conservati O-Operations	T-Testing	50-361/199700800
87-Non-conservati O-Operations	T-Testing	50-361/199701100
87-Non-conservati G-Engineering	A-Administrative	50-361/199701600
87-Non-conservati A-Administrative Su	T-Testing	50-206/199700100

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