

# 1998 Human Factors Information System Report for Plant Docket 354

Combined IR/ER/LER Report  
Docket: 50-354 HOPE CREEK 1

Total Number of Hits in Date Range: 263  
From 01/01/1998 to 12/31/1998  
2x National Average: 255

Details	Department	Work Type	Docket/Report
Communications IR			
Number of items: 11			
Percent of total: 4.18			
53-Communication	LT Z-Other	Z-Other	50-354/1997010
	Z-Other		
53-Communication	LT C-Chemistry	T-Testing	50-354/1998001
	C-Chemistry		
52-Communication	un T-Training	Z-Other	50-354/1998003
	T-Training		
53-Communication	LT C-Chemistry	B-Bal of Plant Ops	50-354/1998005
	C-Chemistry		
55-Communication	Eq D-Emergency Plannin	D-Emergency Drill	50-354/1998005
	D-Emergency Plannin		
52-Communication	un C-Chemistry	B-Bal of Plant Ops	50-354/1998006
	C-Chemistry		
53-Communication	LT M-Mechanical	M-Maint / Repair	50-354/1998007
	M-Mechanical		
51-Misunderstood /	E-Electrical	M-Maint / Repair	50-354/1998007
	E-Electrical		
53-Communication	LT G-Engineering	F-Modification	50-354/1998009
	G-Engineering		
54-No communication	O-Operations	Q-Fire Protection	50-354/1998080
	O-Operations		
54-No communication	G-Engineering	G-Design	50-354/1998080
	G-Engineering		

Communications ER

Number of items: 1  
Percent of total: .38

53-Communication	LT T-Training	Z-Other	50-354/1998003
	T-Training		

Communications LER

Number of items: 0  
Percent of total: 0

Human-System Interface and Environm IR

Number of items: 5  
Percent of total: 1.9

76-Postings	LTA G-Engineering	A-Administrative	50-354/1998001
64-Placement or loc	O-Operations	B-Bal of Plant Ops	50-354/1998005
61-Labels	LTA O-Operations	B-Bal of Plant Ops	50-354/1998006
67-Function	LTA (ac O-Operations	M-Maint / Repair	50-354/1998007
76-Postings	LTA O-Operations	B-Bal of Plant Ops	50-354/1998007

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: 54  
Percent of total: 20.53

32-Supervision / co	C-Chemistry	B-Bal of Plant Ops	50-354/1998001
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Details	Department	Work Type	Docket/Report
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Management and Supervision IR

Number of items: 54

Percent of Total: 20.53

41-Action not begun	B-Plant Management	Z-Other	50-354/1998001
36-Scheduling and p	W-Work Control / Sc	S-Surveillance	50-354/1998001
32-Supervision / co	E-Electrical	M-Maint / Repair	50-354/1998001
32-Supervision / co	M-Mechanical	M-Maint / Repair	50-354/1998001
32-Supervision / co	I-Instrumentation &	M-Maint / Repair	50-354/1998001
40-Individual Corre	G-Engineering	Z-Other	50-354/1998001
40-Individual Corre	G-Engineering	Z-Other	50-354/1998001
47-Root Cause LTA	H-Health Physics	H-Health Physics	50-354/1998001
40-Individual Corre	H-Health Physics	A-Administrative	50-354/1998001
40-Individual Corre	H-Health Physics	Z-Other	50-354/1998001
40-Individual Corre	H-Health Physics	Z-Other	50-354/1998001
47-Root Cause LTA	H-Health Physics	Z-Other	50-354/1998001
41-Action not begun	H-Health Physics	Z-Other	50-354/1998001
41-Action not begun	H-Health Physics	Z-Other	50-354/1998001
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-354/1998002
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-354/1998002
36-Scheduling and p	W-Work Control / Sc	M-Maint / Repair	50-354/1998002
33-Management expec	W-Work Control / Sc	M-Maint / Repair	50-354/1998002
47-Root Cause LTA	G-Engineering	Z-Other	50-354/1998002
40-Individual Corre	G-Engineering	Z-Other	50-354/1998002
40-Individual Corre	G-Engineering	Z-Other	50-354/1998005
32-Supervision / co	C-Chemistry	B-Bal of Plant Ops	50-354/1998005
32-Supervision / co	O-Operations	B-Bal of Plant Ops	50-354/1998006
44-Corrective Actio	O-Operations	Z-Other	50-354/1998006
32-Supervision / co	Z-Other	F-Modification	50-354/1998006
32-Supervision / co	C-Chemistry	B-Bal of Plant Ops	50-354/1998006
32-Supervision / co	Z-Other	K-Housekeeping	50-354/1998007
32-Supervision / co	O-Operations	O-Control Room Ops	50-354/1998007
32-Supervision / co	O-Operations	M-Maint / Repair	50-354/1998007
33-Management expec	O-Operations	O-Control Room Ops	50-354/1998007
33-Management expec	M-Mechanical	M-Maint / Repair	50-354/1998007
40-Individual Corre	G-Engineering	Z-Other	50-354/1998007
40-Individual Corre	G-Engineering	Z-Other	50-354/1998007
41-Action not begun	G-Engineering	Z-Other	50-354/1998007
44-Corrective Actio	G-Engineering	Z-Other	50-354/1998007
36-Scheduling and p	O-Operations	F-Modification	50-354/1998007
32-Supervision / co	Z-Other	Z-Other	50-354/1998007
32-Supervision / co	Z-Other	Z-Other	50-354/1998007
32-Supervision / co	I-Instrumentation &	M-Maint / Repair	50-354/1998008
33-Management expec	O-Operations	T-Testing	50-354/1998008
41-Action not begun	O-Operations	Z-Other	50-354/1998008
33-Management expec	O-Operations	B-Bal of Plant Ops	50-354/1998008
43-Operating Experi	G-Engineering	G-Design	50-354/1998080
40-Individual Corre	G-Engineering	Z-Other	50-354/1998080
44-Corrective Actio	O-Operations	Z-Other	50-354/1998080
47-Root Cause LTA	O-Operations	Q-Fire Protection	50-354/1998080
41-Action not begun	G-Engineering	Z-Other	50-354/1998080
40-Individual Corre	G-Engineering	Z-Other	50-354/1998080
34-Perceived pressu	G-Engineering	G-Design	50-354/1998080
37-Unqualified work	G-Engineering	G-Design	50-354/1998080

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Total Number of Hits in Date Range: 263  
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2x National Average: 255

Details	Department	Work Type	Docket/Report
Management and Supervision IR			
Number of items: 54			
Percent of Total: 20.53			
43-Operating Experi	G-Engineering	G-Design	50-354/1998080
40-Individual Corre	G-Engineering	Z-Other	50-354/1998080
40-Individual Corre	G-Engineering	Z-Other	50-354/1998080
Management and Supervision ER			
Number of items: 0			
Percent of total: 0			
Management and Supervision LER			
Number of items: 1			
Percent of total: .38			
32-Supervision / co	A-Administrative Su	A-Administrative	50-354/199800100

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: 27  
Percent of total: 10.27

13-Procedure has hu	G-Engineering	G-Design	50-354/1997010
12-Procedure techni	G-Engineering	G-Design	50-354/1997010
12-Procedure techni	G-Engineering	G-Design	50-354/1997010
12-Procedure techni	G-Engineering	G-Design	50-354/1997010
12-Procedure techni	G-Engineering	G-Design	50-354/1998001
13-Procedure has hu	G-Engineering	G-Design	50-354/1998001
13-Procedure has hu	G-Engineering	G-Design	50-354/1998002
13-Procedure has hu	G-Engineering	G-Design	50-354/1998002
12-Procedure techni	G-Engineering	G-Design	50-354/1998002
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-354/1998005
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-354/1998005
12-Procedure techni	G-Engineering	G-Design	50-354/1998005
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-354/1998006
13-Procedure has hu	P-Procedure Writers	P-Procedure Dev	50-354/1998007
12-Procedure techni	O-Operations	B-Bal of Plant Ops	50-354/1998007
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-354/1998008
11-No procedure / r	G-Engineering	G-Design	50-354/1998009
12-Procedure techni	G-Engineering	G-Design	50-354/1998009
12-Procedure techni	P-Procedure Writers	P-Procedure Dev	50-354/1998080
14-Document develop	G-Engineering	P-Procedure Dev	50-354/1998080
13-Procedure has hu	G-Engineering	G-Design	50-354/1998080
13-Procedure has hu	G-Engineering	G-Design	50-354/1998080

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Details	Department	Work Type	Docket/Report
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Procedures and Reference Document IR  
Number of items: 27  
Percent of Total: 10.27

12-Procedure techni	G-Engineering	G-Design	50-354/1998080
12-Procedure techni	G-Engineering	G-Design	50-354/1998080
12-Procedure techni	G-Engineering	G-Design	50-354/1998080
12-Procedure techni	G-Engineering	G-Design	50-354/1998080
11-No procedure / r	G-Engineering	G-Design	50-354/1998080

Procedures and Reference Document ER  
Number of items: 0  
Percent of total: 0

Procedures and Reference Document LER  
Number of items: 4  
Percent of total: 1.52

12-Procedure techni	W-Work Control / Sc	S-Surveillance	50-354/199800100
14-Document develop	W-Work Control / Sc	S-Surveillance	50-354/199800100
12-Procedure techni	G-Engineering	P-Procedure Dev	50-354/199800300
11-No procedure / r	O-Operations	B-Bal of Plant Ops	50-354/199800300

Training IR  
Number of items: 19  
Percent of total: 7.22

04-Task Qualificati	I-Instrumentation &	C-Calibration	50-354/1997010
05-Individual knowl	O-Operations	S-Surveillance	50-354/1998001
05-Individual knowl	M-Mechanical	A-Administrative	50-354/1998002
05-Individual knowl	O-Operations	S-Surveillance	50-354/1998002
03-Training process	T-Training	M-Maint / Repair	50-354/1998002
03-Training process	T-Training	Z-Other	50-354/1998003
05-Individual knowl	M-Mechanical	S-Surveillance	50-354/1998005
05-Individual knowl	O-Operations	O-Control Room Ops	50-354/1998005
05-Individual knowl	O-Operations	O-Control Room Ops	50-354/1998005
05-Individual knowl	O-Operations	D-Emergency Drill	50-354/1998005
05-Individual knowl	O-Operations	B-Bal of Plant Ops	50-354/1998006

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05-Individual knowl	O-Operations	B-Bal of Plant Ops	50-354/1998006
03-Training process	T-Training	B-Bal of Plant Ops	50-354/1998006
02-Training LTA	T-Training	O-Control Room Ops	50-354/1998007
05-Individual knowl	O-Operations	O-Control Room Ops	50-354/1998007
05-Individual knowl	O-Operations	O-Control Room Ops	50-354/1998007
05-Individual knowl	G-Engineering	F-Modification	50-354/1998009
05-Individual knowl	G-Engineering	F-Modification	50-354/1998009
06-Simulator fideli	T-Training	Z-Other	50-354/1998301

## Training ER

Number of items: 0  
Percent of total: 0

## Training LER

Number of items: 1  
Percent of total: .38

01-No Training	O-Operations	B-Bal of Plant Ops	50-354/199800300
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## Work Factors IR

Number of items: 136  
Percent of total: 51.71

94-Log-keeping or r	O-Operations	A-Administrative	50-354/1997010
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2x National Average: 255

Details	Department	Work Type	Docket/Report
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## Work Factors IR

Number of items: 136  
Percent of Total: 51.71

84-Non-conserv. dec	O-Operations	O-Control Room Ops	50-354/1997010
83-Work practice or	O-Operations	Z-Other	50-354/1997010
93-Awareness or att	M-Mechanical	K-Housekeeping	50-354/1997010
93-Awareness or att	M-Mechanical	K-Housekeeping	50-354/1997010
93-Awareness or att	M-Mechanical	C-Calibration	50-354/1997010
83-Work practice or	I-Instrumentation &	C-Calibration	50-354/1997010
91-Verification / p	I-Instrumentation &	C-Calibration	50-354/1997010
81-Work Package Qua	W-Work Control / Sc	M-Maint / Repair	50-354/1997010
83-Work practice or	M-Mechanical	M-Maint / Repair	50-354/1997010
81-Work Package Qua	G-Engineering	F-Modification	50-354/1997010
85-Team interaction	G-Engineering	G-Design	50-354/1997010
86-Work untimely	G-Engineering	G-Design	50-354/1997010
86-Work untimely	G-Engineering	G-Design	50-354/1997010
93-Awareness or att	I-Instrumentation &	C-Calibration	50-354/1997010
86-Work untimely	G-Engineering	F-Modification	50-354/1997010
94-Log-keeping or r	W-Work Control / Sc	F-Modification	50-354/1997010
93-Awareness or att	Z-Other	Z-Other	50-354/1997010
93-Awareness or att	W-Work Control / Sc	C-Calibration	50-354/1998001
83-Work practice or	H-Health Physics	K-Housekeeping	50-354/1998001
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-354/1998001
93-Awareness or att	C-Chemistry	B-Bal of Plant Ops	50-354/1998001
93-Awareness or att	C-Chemistry	B-Bal of Plant Ops	50-354/1998001
93-Awareness or att	O-Operations	S-Surveillance	50-354/1998001
93-Awareness or att	E-Electrical	M-Maint / Repair	50-354/1998001
93-Awareness or att	M-Mechanical	M-Maint / Repair	50-354/1998001
93-Awareness or att	I-Instrumentation &	M-Maint / Repair	50-354/1998001
83-Work practice or	E-Electrical	M-Maint / Repair	50-354/1998001
83-Work practice or	M-Mechanical	M-Maint / Repair	50-354/1998001
83-Work practice or	I-Instrumentation &	M-Maint / Repair	50-354/1998001
81-Work Package Qua	G-Engineering	G-Design	50-354/1998001
93-Awareness or att	G-Engineering	G-Design	50-354/1998001
83-Work practice or	G-Engineering	A-Administrative	50-354/1998001
83-Work practice or	H-Health Physics	H-Health Physics	50-354/1998001
83-Work practice or	H-Health Physics	A-Administrative	50-354/1998001
83-Work practice or	U-Unknown	Z-Other	50-354/1998001
83-Work practice or	O-Operations	O-Control Room Ops	50-354/1998002
93-Awareness or att	O-Operations	O-Control Room Ops	50-354/1998002
83-Work practice or	O-Operations	V-Troubleshooting	50-354/1998002
83-Work practice or	M-Mechanical	A-Administrative	50-354/1998002
83-Work practice or	M-Mechanical	A-Administrative	50-354/1998002
83-Work practice or	U-Unknown	A-Administrative	50-354/1998002
84-Non-conserv. dec	O-Operations	S-Surveillance	50-354/1998002
89-Housekeeping LTA	M-Mechanical	M-Maint / Repair	50-354/1998002
93-Awareness or att	E-Electrical	F-Modification	50-354/1998002
91-Verification / p	E-Electrical	F-Modification	50-354/1998002
84-Non-conserv. dec	E-Electrical	A-Administrative	50-354/1998002

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81-Work Package Qua	T-Training	Z-Other	50-354/1998003
81-Work Package Qua	T-Training	Z-Other	50-354/1998003
81-Work Package Qua	T-Training	Z-Other	50-354/1998003
83-Work practice or	T-Training	A-Administrative	50-354/1998003

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Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 136			
Percent of Total: 51.71			
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-354/1998005
84-Non-conserv. dec	O-Operations	S-Surveillance	50-354/1998005
92-Self check LTA	E-Electrical	S-Surveillance	50-354/1998005
93-Awareness or att	M-Mechanical	S-Surveillance	50-354/1998005
93-Awareness or att	I-Instrumentation &	T-Testing	50-354/1998005
92-Self check LTA	E-Electrical	M-Maint / Repair	50-354/1998005
91-Verification / p	E-Electrical	M-Maint / Repair	50-354/1998005
81-Work Package Qua	G-Engineering	F-Modification	50-354/1998005
83-Work practice or	G-Engineering	G-Design	50-354/1998005
84-Non-conserv. dec	C-Chemistry	B-Bal of Plant Ops	50-354/1998005
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-354/1998006
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-354/1998006
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-354/1998006
93-Awareness or att	O-Operations	B-Bal of Plant Ops	50-354/1998006
83-Work practice or	Z-Other	Z-Other	50-354/1998006
81-Work Package Qua	O-Operations	O-Control Room Ops	50-354/1998006
86-Work untimely	O-Operations	A-Administrative	50-354/1998006
83-Work practice or	Z-Other	F-Modification	50-354/1998006
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-354/1998006
84-Non-conserv. dec	O-Operations	M-Maint / Repair	50-354/1998006
85-Team interaction	O-Operations	M-Maint / Repair	50-354/1998006
84-Non-conserv. dec	C-Chemistry	S-Surveillance	50-354/1998006
81-Work Package Qua	G-Engineering	F-Modification	50-354/1998006
91-Verification / p	G-Engineering	F-Modification	50-354/1998006
93-Awareness or att	C-Chemistry	B-Bal of Plant Ops	50-354/1998006
89-Housekeeping LTA	U-Unknown	K-Housekeeping	50-354/1998007
92-Self check LTA	O-Operations	O-Control Room Ops	50-354/1998007
92-Self check LTA	O-Operations	M-Maint / Repair	50-354/1998007
93-Awareness or att	O-Operations	O-Control Room Ops	50-354/1998007
92-Self check LTA	O-Operations	O-Control Room Ops	50-354/1998007
93-Awareness or att	G-Engineering	H-Health Physics	50-354/1998007
85-Team interaction	I-Instrumentation &	S-Surveillance	50-354/1998007
84-Non-conserv. dec	I-Instrumentation &	S-Surveillance	50-354/1998007
84-Non-conserv. dec	I-Instrumentation &	S-Surveillance	50-354/1998007
83-Work practice or	I-Instrumentation &	S-Surveillance	50-354/1998007
83-Work practice or	M-Mechanical	K-Housekeeping	50-354/1998007
84-Non-conserv. dec	M-Mechanical	M-Maint / Repair	50-354/1998007
82-Briefing, prep.	M-Mechanical	M-Maint / Repair	50-354/1998007
84-Non-conserv. dec	I-Instrumentation &	V-Troubleshooting	50-354/1998007
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-354/1998008
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-354/1998008
83-Work practice or	O-Operations	B-Bal of Plant Ops	50-354/1998008
83-Work practice or	M-Mechanical	B-Bal of Plant Ops	50-354/1998008
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-354/1998008
91-Verification / p	M-Mechanical	B-Bal of Plant Ops	50-354/1998008
93-Awareness or att	O-Operations	O-Control Room Ops	50-354/1998008
93-Awareness or att	O-Operations	O-Control Room Ops	50-354/1998008
93-Awareness or att	O-Operations	O-Control Room Ops	50-354/1998008
93-Awareness or att	O-Operations	O-Control Room Ops	50-354/1998008
83-Work practice or	O-Operations	A-Administrative	50-354/1998008

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Details	Department	Work Type	Docket/Report
Work Factors IR			
Number of items: 136			

Percent of Total: 51.71

83-Work practice or	O-Operations	A-Administrative	50-354/1998008
93-Awareness or att	O-Operations	Z-Other	50-354/1998008
93-Awareness or att	O-Operations	Z-Other	50-354/1998008
93-Awareness or att	O-Operations	Z-Other	50-354/1998008
93-Awareness or att	O-Operations	Z-Other	50-354/1998008
84-Non-conserv. dec	O-Operations	T-Testing	50-354/1998008
87-Non-conservative	I-Instrumentation &	T-Testing	50-354/1998008
83-Work practice or	U-Unknown	H-Health Physics	50-354/1998008
83-Work practice or	M-Mechanical	A-Administrative	50-354/1998008
83-Work practice or	M-Mechanical	M-Maint / Repair	50-354/1998008
85-Team interaction	O-Operations	M-Maint / Repair	50-354/1998008
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-354/1998008
91-Verification / p	O-Operations	B-Bal of Plant Ops	50-354/1998008
85-Team interaction	O-Operations	B-Bal of Plant Ops	50-354/1998008
85-Team interaction	C-Chemistry	B-Bal of Plant Ops	50-354/1998008
85-Team interaction	M-Mechanical	B-Bal of Plant Ops	50-354/1998008
91-Verification / p	G-Engineering	G-Design	50-354/1998009
83-Work practice or	G-Engineering	R-Refueling	50-354/1998009
81-Work Package Qua	G-Engineering	F-Modification	50-354/1998009
83-Work practice or	G-Engineering	T-Testing	50-354/1998080
83-Work practice or	G-Engineering	G-Design	50-354/1998080
93-Awareness or att	G-Engineering	G-Design	50-354/1998080
93-Awareness or att	G-Engineering	G-Design	50-354/1998080
93-Awareness or att	G-Engineering	G-Design	50-354/1998080
81-Work Package Qua	G-Engineering	F-Modification	50-354/1998080
81-Work Package Qua	G-Engineering	F-Modification	50-354/1998080
81-Work Package Qua	G-Engineering	F-Modification	50-354/1998080
81-Work Package Qua	G-Engineering	F-Modification	50-354/1998080
83-Work practice or	E-Electrical	A-Administrative	50-354/1998080
83-Work practice or	E-Electrical	A-Administrative	50-354/1998080
83-Work practice or	G-Engineering	G-Design	50-354/1998080
83-Work practice or	G-Engineering	G-Design	50-354/1998080
84-Non-conserv. dec	O-Operations	Q-Fire Protection	50-354/1998080
84-Non-conserv. dec	G-Engineering	Z-Other	50-354/1998080
93-Awareness or att	T-Training	A-Administrative	50-354/1998301

Work Factors ER

Number of items: 0

Percent of total: 0

Work Factors LER

Number of items: 4

Percent of total: 1.52

83-Work practice or	A-Administrative Su	A-Administrative	50-354/199800100
84-Non-conserv. dec	P-Procedure Writers	P-Procedure Dev	50-354/199800200
83-Work practice or	G-Engineering	G-Design	50-354/199800300
92-Self check LTA	G-Engineering	A-Administrative	50-354/199800500

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