and the second	
==> V A L V E S	<**
PMMS ID: M2 02 STG MSC 2316 CAL ID: 2316	WORK ORDER.: M2 02 07951 PRIORITY: 3
'. JCAL SYS: 2316 NPRDS: XX MISC	AWO TYPE: OT UNIT STATUS: U MODE: ZZ
BLDG: ROOM: MAIN STEAM SYSTEM ELEV: 0038 FT 06 IN GRID:	FREQUENCY.:: 18M GRACE ENTRY: / /
EQUIP OUTAGE: TR NO:	DESIRED CMP: 09 / 26 / 2003 REQ CMP: 10 / 27 / 2003
P.O. NO: MIB: MP2RF	PROJ REF: 2R15 SCHED REF: 2R15
EQUIP DESC: MAIN STEAM SYSTEM - MISCELLANEOUS IT	PRINTED: 20030301 06:48:20.6
PROBLEM DESC: SP 2730B REQUIRES TESTING OF MAIN	STEAM SAFETY VALVES
PRIOR TO 2R15.	
SUSP. CAUSE:	
ORIGINATOR: S MILLER DEPT: OPSE DATE: 06	/ 05 / 2002 TR TAG HUNG: N
	/ /B: 5
	••••••••••••••
PROCEDURES: SP2730B	· · ·
CAUTIONS: CAUTION: NOTES	
JOB TITLE: TEST MAIN STEAM SAFETY VALVES DESC: > SEE EXPANDED JOB DESCRIPTION <	
DESC: > SEE EXTANDED GOB DESCRIPTION <	
TASK DEPT EST WKR EST HR TASK	C DEPT EST WKR EST HR
1. TEST VLVS 10 0080.0 4.	00 0000.0
2. TESTOPS010002.05.3. TESTENG030012.06.	00 0000.0 00 0000.0
SUPERVISOR: U VALVES JOE	B LEADER:
DEPT APPROVAL: DA	ATE: 31241 03
	BIY
**************************************	******
(TS PRE-APPROVAL: /// TIME: TRBLSHT/FABRICATE ONLY	DATE://
TAG CLEARANCE: LCO: DURAT	
OPS APPROVAL: 2022 TIME: 15	540 date: $9/9/03$
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PAGE 2 OF 5 WORK ORDER: M2 02 07951 TAGGING VERIFIED BY: MA . TUAL WORK / PARTS: for formed pre 106 brief and West Stress briet. 2-MS-245, 2-MS-246 ladjustments on 2-MS-239, 02730 B. No -249 in acordone with Work Complete. all ancelund data Signature Sheet in inspection 1) See shits all simpling Tot allchids sot. CAUSE/COMMENTS: FAIL CODE: BKmm PERFORMED C. KIG 6 NWS Contractors J.Bell BY: 57A M & TE: QA-2611E QA-2611F QA-2625 QA-2655 QA-5818A DA-57116-CER NO: CAL DUE: 4/15/04 4/15/04 411104 415104 10/3/24 10/3/04 <u>ŵ4-5383</u> QA-5384 QA-0313 SERNU GAOSIL 12/22/03 11/104 4/5/01___ culdar 4/104 WORK COMPLETE: COMP DATE: 10 / 10 / 03 TR TAG REMOVED: N/A RELEASE CODE: PMT BY MODE: RETURN CODE: POST MAINTENANCE TESTING/FUNCTIONAL VERIFICATION PMT RESULTS DATA METHOD/PROCEDURE TESTING WILL BE PERFORMED AS SPECIFIED IN THE BODY OF THE WORK ORDER. NO ADDITIONAL PMT REQUIRED. ACCEPT N/A CRITERIA: SAT / UNSAT DEPT: DATE: PERFORMED BY: DEPT: DATE: _ PERFORMED BY: SAT / UNSAT /_/ *********** WO REMOVED FROM Ð 1 TAG CLEARANCE BY: DATE: TIME: DATE: 10 / 10 / 03 _CEPTED BY OPS: DATE: 05 / 20/04 PMMS REVIEW:

PAGE 3 OF 5

WORK ORDER: M2 02 07951

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NUCLEAR INDICATORS: CAT1....: Y EVALCD: 3039 FPQA....: N XWQA....: N ATWS....: N SBOQA...: N PEND:

SAFETY FUNCTION CODE: PASS

SAFETY FUNCTION DESCRIPTION: USED FOR MISCELLANEOUS SYSTEM MAINTENANCE

PROGRAM INDICATORS:

APPEN J..: YHELB.....: YE/C: YFP.....: NAPPEN R..: YERDS.....: YIST: YMOV TEST..: YSEISMIC...: YCHECK VLV: YHEAVY LOADS: NSBO: YRG 1.97...: YSECTION XI: YEEQ.....: RLIFE...: 00000SERVICE DATE: 00/00/0000ZONE: -MNTC RULE: YMR CLASS: RS UA

REFUEL CODE: 2R152AXS316X00316X99

		TASK	DEPT	# WKR	WKRHR
	1.	TEST	VLVS	8	96
	2.	TEST	OPS	2	2.4
	З.	TEST	ENG	-4	48
,	4.				
					<u> </u>
•	6.				

WORK ORDER NUMBER: M2 02 07951 LOCAL ID : 2316 **'DB DESCRIPTION CONTINUED**

PAGE 4 OF 5

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GENERAL SUMMARY: TEST MAIN STEAM SAFETY VALVES

REFERENCES:

DESIGN: NA

DRAWINGS: 25203-26002 SHT. 1 (P&ID)

PROCEDURES:

*** VERIFY CURRENT REVISIONS ***

*** CONTINUOUS USE PROCEDURE ***

SP 2730B: MAIN STEAM SAFETY VALVE TESTING/IPTE

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SPECIAL NOTES AND PRECAUTIONS:

- REFER TO MP-19-SH-REF01S14 -EVALUATE AREA FOR POTENTIAL HEAT STRESS

JOB DESCRIPTION

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NOTE: OBTAIN APPROVAL SIGNATURES REQUIRED IN SP2730B SECTION 4.4 PRIOR TO TESTING .

> PERFORM TEST OF MAIN STEAM SAFETY VALVE IN ACCORDANCE WITH SP 2730B AND FORM SP 2703-001. DOCUMENT AS-FOUND TESTING DATA AND ANY ADJUSTEMENTS MADE BELOW:

VALVE ID#	AS FOUND (PSIG)	ADJUSTMENTS REQUIRED/COMMENTS
2-MS-239	1026 pric	NA second lift = 1027.2 psig
2-MS-240	NIA	
2-MS-241	NIA	·
2-MS-242	NIA	
2-MS-243	NA	
2-MS-244	NIA	·
2-MS-245	978.9 psic	aly. "rolift" prosents = 1009.1 \$ 1007. 9 ps,

----- CONTINUED -----

WORK ORDER NUMBER LOCAL ID OB DESCRIPTION C	: 2316	PAGE 5 OF 5.
2-MS-246	460.3 pril	ag alalift = 977.2 \$ 983.2 516
2-MS-247	967.8ps.6	ely, lasheft" = 993.9 \$ 989.9 psic
2-MS-248	NIA	
2-MS-249	995.2psic	alj. 1 00 lift pressores = 952.8\$ 954.1 pr 10
2-MS-250	NIA	
2-MS-251	_NIA	
2-MS-252	NA	
2-MS-253	NIA	
2-MS-254	NIA	<u></u>

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05/05/99					06/02/99
Approval Date		<u></u>			Effective Date
	Н	eat Stress Evalua	tion		
Work Document Number	r: M2-02-07951		Rev:	0	
Work Activity Descripti	<u></u>	n General Area 38'6"	-		
A heat stress evaluation greater than 95°F, or hea difficulty. Site Safety ar provide additional guida	to determine recomment t stress is a concern be d MP-05-SF-REF01s1	nded stay time is required as a stay time is required as a stay time is required as a stay of clothing required as a stay of the stay of t	irements	, job location	ı, or physical
Site S	efety evaluation is req	uired if ambient ten	aperatur	e exceeds 12	0°F
1. Ambient Air Temp	erature: <u>105</u> °F (Meas	sured at actual job loc	ation)		
Reason for Heat Stre (if temperature not g					
2 Activity Level: from	Table 2 "Expected Me	etabolic Load for Sele	cted Acti	ivities"	
🛛 Low	Moderate	🔲 High			
3. Clothing:					
🔀 Work clothe	Cotton cover	ralls 🗌 Doul	ble cottor	ns 🗌 Co	tton plus plastics
4. Recommended Stay	Time: 60 minutes.				
	ecommended Stay Tin	nes Based on Clothing	g, Temper	rature, and A	ctivity Level.
Site Safety evaluati	on required if extreme	e heat stress exposur	e indicat	ed in Table	1.
5. Recovery Period: 1	-	-			
	uld be approximately 2 re needed, particularly				
Approved: D. Go		O Horm	FL	<u>.s</u>	5529
	OB Leader, Names (print)	Signature 1017	103	Title	phone
Site Safety Evaluat	on (if needed)				
Reason for Site Safe	y Evaluation				
	ature exceeds 120°F or	extreme heat stress h	azard exi	sts	
Other (describe)	:				
Approved:	5-5-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Signature		77.54	
Distribution: Work Package	te Safety, Name (print) (original); Post in work are		у	Title	phone
·	-				
				Form MP-1	9-SH-SAP01-3
				Rev. 0	~
				1 of 2	

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05 05 99			06/02/99			
Approval Date .			Effective Date			
Heat Stress Ev	aluation					
Work Document Number: M2-02-07951	Rev:	0				
Work Activity Description: MSSV Test W. Pen Valve Platfor	m					
A heat stress evaluation to determine recommended stay time i greater than 95°F, or heat stress is a concern because of clothin difficulty. Site Safety and MP-05-SF-REF01s14 (Site Safety N provide additional guidance.	g requirements, j	job location, or	physical			
Site Safety evaluation is required if ambie	nt temperature	exceeds 120°F	• ·			
1. Ambient Air Temperature: <u>110</u> °F (Measured at actual j	ob location)					
Reason for Heat Stress Evaluation (if temperature not greater than 95°F):						
2 Activity Level: from Table 2 "Expected Metabolic Load for	or Selected Activ	ities"				
Not Low for TK conder A Moderate ☐ High		•				
3. Clothing:						
Work clothes Cotton coveralls. Double cottons Cotton plus plastics 4. Recommended Stay Time: 20 minutes.						
4. Recommended Stay Time: 20 minutes.						
	othing, Tempera	ture, and Activ	ity Level.			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex		-	ity Level.			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex		-	ity Level.			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex	posure indicate	d in Table 1. vever, longer re	covery periods o			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex 5. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the <u>actual</u> 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence	posure indicate	d in Table 1. vever, longer re ceeds Recomm	covery periods o			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex 5. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t	posure indicate <u>l</u> stay time. How ime equals or exe FLS	d in Table 1. vever, longer re ceeds Recomm	covery periods o ended Stay Time			
 Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence 	posure indicate <u>l</u> stay time. How ime equals or exe FLS	d in Table 1. vever, longer re ceeds Recomm	covery periods c ended Stay Time 5529			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex 5. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the <u>actual</u> 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence FLSJOB Leader, Names (print) Signate	posure indicate <u>l</u> stay time. How ime equals or exe FLS	d in Table 1. vever, longer re ceeds Recomm	covery periods c ended Stay Time 5529			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex 5. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence FLSJOB Leader, Names (print) Signatu Site Safety Evaluation (if needed)	posure indicate <u>1</u> stay time. How ime equals or exe FLS	d in Table 1. vever, longer re ceeds Recomm	covery periods c ended Stay Time 5529			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex (15 for loss of 10 minutes. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence FLSJOB Leader, Names (print) Signatu Site Safety Evaluation (if needed) Reason for Site Safety Evaluation	posure indicate <u>1</u> stay time. How ime equals or exe FLS	d in Table 1. vever, longer re ceeds Recomm	covery periods c ended Stay Time 5529			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex 5. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence FLSJOB Leader, Names (print) Site Safety Evaluation (if needed) Reason for Site Safety Evaluation Ambient temperature exceeds 120°F or extreme heat st Other (describe): Approved:	posure indicated 1 stay time. How ime equals or ex- FLS re- ress hazard exist	d in Table 1. vever, longer re ceeds Recomm Title	covery periods of ended Stay Time 5529 phone			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex (15 hr lose first) 5. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence FLSJOB Leader, Names (print) Signate Site Safety Evaluation (if needed) Reason for Site Safety Evaluation	posure indicate <u>1</u> stay time. How ime equals or exe FLS	d in Table 1. vever, longer ro ceeds Recomm				
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence FLSJOB Leader, Names (print) Signatu Site Safety Evaluation (if needed) Reason for Site Safety Evaluation Ambient temperature exceeds 120°F or extreme heat st Other (describe): Approved:Site Safety, Name (print) Signatu	posure indicated 1 stay time. How ime equals or exe FLS re ress hazard exist	d in Table 1. vever, longer re ceeds Recomm	covery periods ended Stay Tin 5529			
Reference Table 1 Recommended Stay Times Based on Cl Site Safety evaluation required if extreme heat stress ex 5. Recovery Period: 10 minutes. Recovery period should be approximately 25% of the actual 1 hour or more may be needed, particularly if actual work t Approved: D. Gorence FLSJOB Leader, Names (print) Site Safety Evaluation (if needed) Reason for Site Safety Evaluation Ambient temperature exceeds 120°F or extreme heat st Other (describe): Approved:	posure indicated 1 stay time. How ime equals or exe FLS re ress hazard exist	d in Table 1. vever, longer re ceeds Recomm Title	covery periods of ended Stay Time 5529 phone			

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Approval Date			Effective Date
lica	t Stress Evaluat	ion	
Work Document Number: M2-02-07951		Rev: 0	
Work Activity Description: MSSV Test W. Pen N	1S Gage		
A heat stress evaluation to determine recommende greater than 95°F, or heat stress is a concern becau difficulty. Site Safety and MP-05-SF-REF01 14 (provide additional guidance.	se of clothing requi	rements, job location	, or physical
Site Safety evaluation is requir	red if ambient temp	perature exceeds 12	0°F
1. Ambient Air Temperature: 92°F (Measured	l at actual job locati	on)	
Reason for Heat Stress Evaluation (if temperature not greater than 95°F):	<u> </u>		
2 Activity Level: from Table 2 "Expected Metal	polic Load for Selec	ted Activities"	
Low Doderate	🔲 High		
3. Clothing:	•		
Work clothes Cotton coverall	s 🗍 Doubl	c cottons 🔲 Cot	ton plus plastics
4. Recommended Stay Time: <u>90</u> minutes.			
Reference Table 1 Recommended Stay Times	Based on Clothing,	Temperature, and A	ctivity Level.
Site Safety evaluation required if extreme he	eat stress exposure	indicated in Table	1.
5. Recovery Period: 25 minutes.			
Recovery period should be approximately 25% 1 hour or more may be needed, particularly if a			
Approved: D. Gorence	Marie	FLS	5529
FLSJOB Leader, Names (print)	Signature	Title	phone
Site Safety Evaluation (if needed)			
Reason for Site Safety Evaluation			
Ambient temperature exceeds 120°F or ext	freme heat stress haz	card exists	
Other (describe):			
Approved:			
Site Safety, Name (print) Distribution: Work Package (original); Post in work area;	Signature Supervisor, Site Safety	Title	phone
Distribution: Work Package (original); Post in work area;	Supervisor, Site Safety		
		Form MP-1	9-SH-SAP01-3
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Approval Date	Effective Date
Heat Stress Evaluation	
Work Document Number: <u>M2-02-07951</u> Rev:	0
Work Activity Description: MSSV Test E. Pen MS Gage	
A heat stress evaluation to determine recommended stay time is required whene greater than 95°F, or heat stress is a concern because of clothing requirements, j difficulty. Site Safety and MP-05-SF-REF01s14 (Site Safety Manual section or provide additional guidance.	ob location, or physical
Site Safety evaluation is required if ambient temperature	exceeds 120°F
1. Ambient Air Temperature: 97°F (Measured at actual job location)	
Reason for Heat Stress Evaluation (if temperature not greater than 95°F):	
2 Activity Level: from Table 2 "Expected Metabolic Load for Selected Activity	ties"
Low Moderate High	
3. Clothing:	
Work clothes Cotton coveralls Double cottons	Cotton plus plastics
4. Recommended Stay Time: 90 minutes.	
Reference Table 1 Recommended Stay Times Based on Clothing, Tempera	ure, and Activity Level.
Site Safety evaluation required if extreme heat stress exposure indicated	i in Table 1.
5. Recovery Period: 25 minutes.	
Recovery period should be approximately 25% of the <u>actual</u> stay time. How 1 hour or more may be needed, particularly if actual work time equals or exe	ever, longer recovery periods o ceeds Recommended Stay Time
Approved: D. Gorence 9 Journ FLS FLSJOB Leader, Names (print) Signature 1.1.5,	5529Titlephone
Site Safety Evaluation (if needed)	
Reason for Site Safety Evaluation	
Ambient temperature exceeds 120°F or extreme heat stress hazard exists	5
Other (describe):	
Approved:	
Site Safety, Name (print) Signature Distribution: Work Package (original); Post in work area; Supervisor, Site Safety	Title phone
	Form MP-19-SH-SAP01-3
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Approval Date					Effective Date		
	Не	at Stress Evaluation	n				
Work Document Number:	M2-02-07951	R	ev:	0			
Work Activity Description:	MSSV Test E. Pen	VLV Platform	_				
A heat stress evaluation to o greater than 95°F, or heat st difficulty. Site Safety and I provide additional guidance	tress is a concern beca MP-05-SF-REF01s14	use of clothing requirer	nents,	, job loca	tion, or physical		
Site Safe	ty evaluation is requ	ired if ambient temper	ratur	e exceeds	: 120°F		
1. Ambient Air Tempera	iture: <u>112</u> °F (Measu	red at actual job location	n)				
Reason for Heat Stress (if temperature not grea							
2 Activity Level: from Ta	able 2 "Expected Met	abolic Load for Selected	I Acti	vities"			
. 🗌 Low	🛛 Moderate	🔲 High					
3. Clothing:							
Work clothes	Cotton covera	lls 🗌 Double o	cotton	is 🔲	Cotton plus plastics		
4. Recommended Stay Time: 20 minutes.							
Reference Table 1 Recommended Stay Times Based on Clothing, Temperature, and Activity Level.							
Site Safety evaluation	required if extreme	heat stress exposure in	dicat	ed in Ta	ble 1.		
5. Recovery Period: <u>10</u>	minutes.						
Recovery period should be approximately 25% of the <u>actual</u> stay time. However, longer recovery p I hour or more may be needed, particularly if actual work time equals or exceeds Recommended Sta							
••	••••••	actual work time equals	s or ex	ACCCUS IN	commended Stay Th		
I hour or more may be a Approved: D. Goren	needed, particularly if	Office	s or ex		5529		
1 hour or more may be a Approved: D. Goren FLSJOB	needed, particularly if ce Leader, Names (print)	Signature AGIS			•		
1 hour or more may be a Approved: D. Goren- FLSJOB Site Safety Evaluation	needed, particularly if ce Leader, Names (print) (if needed)	Office		<u>s</u>	5529		
1 hour or more may be a Approved: <u>D. Goren</u> FLSJOB Site Safety Evaluation Reason for Site Safety E	needed, particularly if ce Leader, Names (print) (if needed) Evaluation	Ofference AGIS	<u>FL</u>	S Title	5529		
1 hour or more may be a Approved: <u>D. Goren</u> FLSJOB Site Safety Evaluation Reason for Site Safety E	needed, particularly if ce Leader, Names (print) (if needed) Evaluation	Office	<u>FL</u>	S Title	5529		
1 hour or more may be a Approved: <u>D. Goren</u> FLSJOB Site Safety Evaluation Reason for Site Safety E	needed, particularly if ce Leader, Names (print) (if needed) Evaluation re exceeds 120°F or e	Ofference AGIS	<u>FL</u>	S Title	5529		
1 hour or more may be a Approved: <u>D. Gorener FLSJOB</u> Site Safety Evaluation Reason for Site Safety E Ambient temperature Other (describe): Approved:	needed, particularly if ce Leader, Names (print) (if needed) Evaluation re exceeds 120°F or e	Signature AGLIS xtreme heat stress hazar	<u>FL</u>	S Title	5529 phone		
<pre>1 hour or more may be a Approved:</pre>	needed, particularly if ce Leader, Names (print) (if needed) Evaluation re exceeds 120°F or e afety, Name (print)	Signature AGLTS	<u>FL</u>	S Title	5529		
<pre>1 hour or more may be a Approved:</pre>	needed, particularly if ce Leader, Names (print) (if needed) Evaluation re exceeds 120°F or e afety, Name (print)	Signature AGLTS	<u>FL</u>	S Title	5529 phone		
1 hour or more may be a Approved: <u>D. Gorener FLSJOB</u> Site Safety Evaluation Reason for Site Safety E Ambient temperature Other (describe): Approved: Site S	needed, particularly if ce Leader, Names (print) (if needed) Evaluation re exceeds 120°F or e afety, Name (print)	Signature AGLTS	<u>FL</u>	S Title Sts Title			
<pre>1 hour or more may be a Approved: D. Goren FLSJOB Site Safety Evaluation Reason for Site Safety E Ambient temperatue Other (describe):</pre>	needed, particularly if ce Leader, Names (print) (if needed) Evaluation re exceeds 120°F or e afety, Name (print)	Signature AGLTS	<u>FL</u>	S Title Sts Title	5529 phone		

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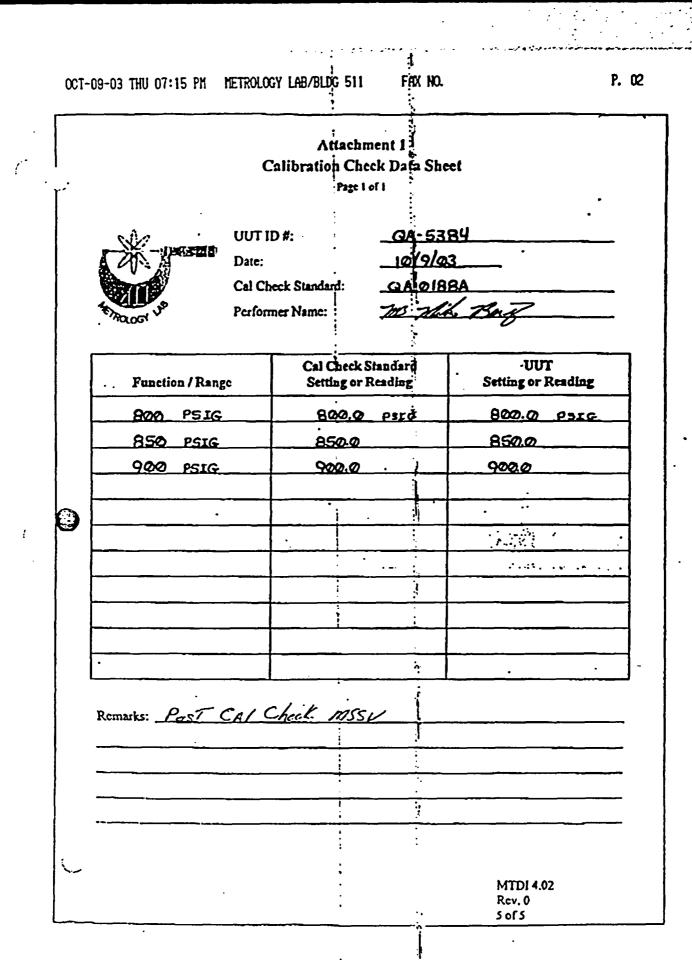
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Approval Date		·			Effective Date
	Hea	t Stress Evalu	ation		
Work Document Number: M	2-02-07951		Rev:	0	
Work Activity Description: M	SSV Test E. Pen Pi	ump Platform	•		
A heat stress evaluation to dete greater than 95°F, or heat stress difficulty. Site Safety and MP- provide additional guidance.	s is a concern becau	se of clothing rec	juirements,	job location	, or physical
Site Safety e	valuation is requi	red if ambient te	mperature	exc ee ds 12	0°F
1. Ambient Air Temperatur	e: <u>101</u> °F (Measure	ed at actual job lo	cation)		
Reason for Heat Stress Eva (if temperature not greater t					
2 Activity Level: from Table	2 "Expected Metal	bolic Load for Se	lected Activ	rities"	
🛛 Low] Moderate	🔲 High			
3. Clothing:					
Work clothes	Cotton coverall	s 🗌 Do	uble cottons	s 🗌 Cot	ton plus plastics
4. Recommended Stay Time	: <u>40</u> minutes.				
Reference Table 1 Recomm	nended Stay Times	Based on Clothin	ng, Tempera	ature, and A	ctivity Level.
Site Safety evaluation req	uired if extreme h	eat stress exposu	ire indicate	d in Table	1.
5. Recovery Period: 15 min	utes.				
Recovery period should be 1 hour or more may be need					
Approved: D. Gorence		Othorn	<u></u>		5529
	ler, Names (print)	Signature p	4/13	Title	phone
Site Safety Evaluation (if	-				
Reason for Site Safety Eval					
Ambient temperature e	xceeds 120°F or ex	treme heat stress	hazard exis	ts	
Other (describe):					
Approved:	, Name (print)	Signature		Title	
Distribution: Work Package (origina		· · ·	ety		phone
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Ω Τ-	09-03 THU 07:15 PM METROL	OCY LAR/RIDE 511 FAX	NO.	P. 05
0.1-	09-03 INU 01-15 FIL INCINOL			
		Attachment I		
		Calibration Check Data	Sheet	
in [;]		Page 1 of 1		
	BALL STATES		2625J	-
	Date		19/03	
			Mike But	
	*Thought Perfo	ormer Name: 78	Mar Bay	-
[Cal Check Standard	·UUT	
	Function / Range	Setting or Reading	Setting or Reading	
	<u> </u>	4512. 0 PSI	450.0 PS/	<u>'</u>
	<u>500</u>	500.0	500.0	
	550	550.0	550.0	
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	Remarks: <u>Post CAL C</u>	hell mssv		
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		Attach	ment 1	• .	
1		Calibration Ch	Ŷ	et	
ľ.		. Page	lofi		
	sûn i f	JUTID#:	_GA-Ø3	. 12	
		Date:	lala		-
	A V A	al Check Standard:	it.	A_ QA-5818A	
ł		erformer Name:	75 7	the Bad	
}		: •	**		
	. Function / Range	Cal Check Setting or	Standard Reading	•UUT Setting or Reading	
	400 PS1	400.0	PSI	399.4 PS1	
	450	450.0		<u> </u>	
	500	500.	Ø	499.4	
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	Remarks: <u>Post CAL</u>	Check MSSV.		·	
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		Attachment I Calibration Check Data Sh Page I of I	
ļ	Date:	:	
	Function / Range	Cal Check Standard Setting or Reading	· UUT Setting or Reading
	400 PS1	400.0 PS1	399.7 PSI
	450	450.0	449.7
	500	500.0	499.7
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-	·····		· · · · · · · · · · · · · · · · · · ·
- -	······································		
- -	Remarks: <u>Past CRIC</u>	Kack MSSV	· · · · · · · · · · · · · · · · · · ·
-			MTDI 4.02 Rcv. 0

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Approval Date 09/2	5/03	Effective	10/02/03	
Surveillan		4		A
Generic Information				
Main Steam Safety Va	lve Testing			Rev. No. 010
Reference Procedure	Applicable Tech. Spec.	Applic	ability (Tech. Spec.)	Frequency
SP 2730B	4.7.1.1	мо	DES 1, 2, and 3	See Note*
This form is being used f	or the following:			
Tech Spec Surveilland	e 🛛 System Alignment	C) Other:	
Maintenance Restorat (Retest)	ion Non-Tech Spec Surveillnce (PM)			
Specific Information				
AWO Number Lat. 1M2-02-07951	Date N/A		Schedule Start Date	107
Performance Modes Pre	requisites Completed (Initials)	·····	<u>() 3</u> (5)	
Test Authorized By	<i>[;</i> }		Date	
Here is			10.09.03	Partial Surveillar
Performed By	helim		Date / Time 12/15 10/08/07	Yes
Accepted By			Date / Time	Acceptance Criteri Satisfied
Approved by Department read	r Designee)	<u> </u>	10/10/03 0740 Date	Yes [
(.)	angen		10/10/03	
Shift Managér Notified of Failed T	IA		Date	CR#:
Surveillance Information				
Test E	quipment Type		QA Number	Cal Due Date
Hydroset		 I	QA-SGUF	yloslay
Hydroset Pressure Gau	ige (if applicable)	•	QA-2611 F QA-2515A QA-5515A	4/1/04
Steam Header Pressur	e Gauge		QA- 5383	4/5/64
Pyrometer			QA- 6376	12/02/03
PTE Millauri Performance Verification Perform	ed By		RA-57116	4/5/64 Date
N	•			Nh
Comments				
thister Class 0 Mais 0	Coloby Victures All		he tested within an	
-ivole: Class 2 Main S	learn Safety Valves: All valv	es snall	De lested within ea	cn subsequent
5 year period with a mi	nimum of 20% of the valves	tested v	within any 24 month	s. This 20% shall
previously untested val	ves, if they exist. (from ASI	ME/ANS	61 OM - 1987, Part 1,	Section 1.3.3)
			SP 2730E	1-001

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	Test In	formation	
Valve No. 2-MS-		No: BN 4976	
Alve inspection (circle Leakage (check drip Damaged parts Abnormal condition		(any): CAT/LANSAT	
.heck > below metho	od used to verify valve set pressure		
"As Found"	In-line test (hydraulic ass	ist lift test)	
	Off-site test facility In-line test (hydraulic ass	[
"As Left"	Off-site test facility		
f set pressure verified	d at off-site test facility, record:	Test Facility:N/A PO number:N/A	
Accord Set Pressure:		"As Found" Set Pressure: "As Left" Set Pressure: "As Left" Set Pressure:	1025.7
est was conducted st results are accur est Engineer: anagement Test L	6 Ator		

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Acceptance Criteria

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"As Found" – On first lift, value opens at design lift setting (-3%, to less than +3%)

"As Left "- On last two consecutive lifts, valve opens at design lift setting $(\pm 1\%)$ (first lift may be included as one of the two consecutive lifts if first lift is within $\pm 1\%$) [#Ref. 6.4]

	Valve Set Pressure	Acceptance Crite	ria
Valve ID#	"As Found" (psig)	Valve ID#	"As Left" (psig)
(2-MS-239	1035 (1004 to 1065)	2-MS-239	1035 (1025 to 1045)
2-MS-240	1030 (999 to 1060)	2-MS-240	1030 (1020 to 1040)
2-MS-241	1010 (980 to 1039)	2-MS-241	1010 (1000 to 1020)
2-MS-242	990 (960 to 1019)	2-MS-242	990 (980 to 999)
2-MS-243	1035 (1004 to 1065)	2-MS-243	1035 (1025 to 1045)
2-MS-244	1020 (990 to 1049)	2-MS-244	1020 (1010 to 1030)
2-MS-245	1000 (970 to 1029)	2-MS-245	1000 (990 to 1010)
2-MS-246	985 (956 to 1013)	2-MS-246	985 (975 to 994)
2MS247	985 (956 to 1013)	2-MS-247	985 (975 to 994)
2-MS-248	1035 (1004 to 1065)	2-MS-248	1035 (1025 to 1045)
2-MS-249	1000 (970 to 1029)	2-MS-249	1000 (990 to 1010)
2-MS-250	1030 (999 to 1060)	2-MS-250	1030 (1020 to 1040)
2-MS-251	1020 (990 to 1049)	2-MS-251	1020 (1010 to 1030)
2-MS-252	1010 (980 to 1039)	2-MS-252	1010 (1000 to 1020)
2-MS-253	1035 (1004 to 1065)	2-MS-253	1035 (1025 to 1045)
2-MS-254	990 (960 to 1019)	2-MS-254	990 (980 to 999)

Lift settings are from Tech. Spec. Table 4.7-1, Amend. #195, and have been converted in this table from psia to psig to prevent transposition errors during testing.

SP 2730B-001 Rev. 010-01 Page 3 of 3____

[Atta	chment 7	
	Hydroset Corr	ection Calculation	
1	-	eet 1 of 1)	
I			
	awo#: <u>M2-02-079</u> 51	Valve ID# 2-MS-	- 239
	(Blank copies of Attachment 7, S	heet 1 may be reproduced as neces	шу)
Hydroset QA No. (() ()	Hydroset Sc	rial No. (<u>96 // F</u> -)-,
			rial No. (36 11 E)ay HS 647
<u>_(035</u> psi	g MSSV Sct Pressure (Step 4.2.3.a.)		,
psi	g Steam Header Pressure (Step 4.2.	1)	
<u> </u>	Hydroset Influence (Step 4.2.3.b.)	÷ 0.312 =	641
		Expected Hydro	set Pressure (Step 4.2.3.c.)
640 psi	ig Required Pump Pressure from Ny	droset Correction Chart (Ste	p 42.3.d.1)
	ig Applied Pump Pressure from Hyd		
= -1.0 psi	ig/Hydroset Correction (Step 4.2.3.e	.) x 0.312= $(+/_)$	Influence (Step 4.2.3.f.)
[I	1		(otep 4.2.5d.)
Comments:			
He	educal Learny 111.6°	Ϋ́F	
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<u> </u>			/
		/	/
			SP 2730B
	of Use stop Think	ACT REVIEW	SP 2730B Rev. 12

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					ment 8				
		Tes	t Data She	÷	esser Model 1	1566 Hydros	et		
	AWO#: <u>M2</u>	<u>-02-07951</u>		(Sneet	1 of 1)	Valve	ID# 2-MS-	239	بسانقسين
		(Blank co	opies of Attac	chment 8, She	et 1 may be rep	roduced as neo	essary)		
Hydr	oset Correctio	on calculation ba	ased on Head	ler Pressure of	(840)	psig using Hyd	roset QA No	D. (2611F)
			Test Data		·····			Adjustments Af	ter Test
Step 4.5.14.(d.1)	Step 4.2.3.(g.)	Ster 4.5.14.		Step 4.5.15.(c.2)	Step 4.5.15.(d.)	Step 4.5.18.(b.)		Step 4.5.19.(a.)	
Test No.	Hydroset	Steam Header	Hydroset	Hydroset	Valve Set	No		Yes	
& Time	Correction	(psig)	Pressur e (pslg)	Influence	Pressure (psig)	Initial	Initial	CW or CCW	No. of Flats
1. 1210	3	+ 140835	1.13.3	191.3	1-2825.7	qut			
2. 1215	3	# 835	617.1	192.5	1027.2	544			
3.							_		
4.			· · · · · · · · · · · · · · · · · · ·						
5.									
б.									
7.									
8.									
).									
10.									
11.									
<u>.</u>	l			1					
. Hydros	set Influence =	* Gratel A Header Pressure Hydroset Pressur auge is graduated	+ (Hydroset) re (PSIG) x 0.3	Pressure x 0.312 312			i be marked 1	N/A.	
I. Hvdros	et Correction r	nust be calculated	I from Correct	tion Chart supp	lied with Hydros	et Calibration E	ocumentatio	n. This calculatio	n should be
i. Test val	lve minimum a	rformance of test. mount of times re	quired to mee	t test objective,	subsequent test	data lines shoul	d be lined thr	ough.	iniluence.
						A.		SP 2730B	}
Level	of Use				ACT RI	Walk		Rev. 12	
Conti	nuous		STO	P THINK	ACT H	SATEM STATEM		48 of 56	

Approval Date	09/25/0	3	Effective Date 10/02/03				
		e Form	-				
Form Title Main Steam	Safety Valve	Testing				Rev. No. 010-	
Reference Procedu	1e	Applicable Tech. Spec.	Applic	ability (Tech. Spec.)	Frequency	01	
SP 2730B		4.7.1.1	бм	DES 1, 2, and 3	See Note*		
Tech Spec	eing used for the surveillance ace Restoration	e following: System Alignment Non-Tech Spec Surveilince (PM)	C) Other:			
Specific Inform	nation					····	
AWO Number	Late Dat			Schedule Start Date			
M2-02-0 Performance Mode	s Prerequi	ہر/ہے sites Completed (Initials)	<i>.</i>	Precautions Noted (Init	ials)		
Test Authorized By		Ŀ		Date			
- Hard	ý		10.09.0		Partial Surveilland		
Performed By	Strake	•		Date / Time 10/0/03 /02	√ ل ۲۰	s [] No	
Accepted Bry	E sik	/	Date / Time		Accepta	nce Criteria	
Approved by (Dep	Intment Hand or De	signee)		1410/03 0740 Date		s [] w	
Shift Manager Hot	y 6. Jango	<u> </u>					
Shin Manager you	N/A			rila	N/d		
Surveillance Ir	formation	·		. <u> </u>			
	Test Equip	nent Type		QA Number	Cal	Due Date	
Hydroset			1	QA-2511F	4/15/0	24	
· ·	essure Gauge	(if applicable)	•	QA-SBIBA	of ulilon	1	
	er Pressure G	auge		QA-5383	4/5/0	Y	
Pyrometer				QA-6376	1 1zhu	63	
Performance Verifi	cation Performed By			QA-57116	<u>4/5/0</u> Date	<i>ч</i>	
	NLt	· · · · · · · · · · · · · · · · · · ·			N/A.	• •••	
Comments							
*Note: Clas	s 2 Main Stear	n Safety Valves: All valve	s shall	be tested within e	ach subseq	uent	
5 year period	d with a minim	um of 20% of the valves to	ested v	within any 24 mon	ths. This 20	% shall be	
previously u	ntested valves	, if they exist. (from ASM	E/ANS	6I OM-1987, Part	1, Section 1.	.3.3)	
L				SP 273()B-001		
				Rev. 01	0-01		
				Page 1	o[3		

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• • • • • • • • • • • • • • • • • • •		<u></u>
	Test Information	·
Valve No. 2-MS	^	
Valve inspection (circle • Leakage (check drip) • Damaged parts • Abnormal condition	result and describe discrepancy if any) SAT / UNSAT pan)	
Check 🛩 below method	d used to verify valve set pressure:	
"As Found"	In-line test (hydraulic assist lift test)	
	Off-site test facility In-line test (hydraulic assist lift test)	
"As Ļeft"	Off-site test facility	
If set pressure verified a	at off-site test facility, record: Test Facility:/A PO number://A	1
Record Set Pressure:	"As Found" Set Pressu "As Left" Set Pressure "As Left" Set Pressure	
Test was conducted i test results are accur Test Engineer:	in accordance with SP 2730B, "Main Steam Safet rate.	· · · ·
Management Test Le	cad:	Date: <u>///9/0-3</u> Date: <u>10-9-03</u>
	· ·	-

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Acceptance Criteria

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"As Found" – On first lift, valve opens at design lift setting (-3%, to less than +3%)

"As Left "- On last two consecutive lifts, valve opens at design lift setting $(\pm 1\%)$ (first lift may be included as one of the two consecutive lifts if first lift is within $\pm 1\%$) [#Ref. 6.4]

	Valve Set Pressu	re Acceptance Crit	ria
Valve 1D#	"As Found" (psig)	Valve 1D#	"As Left" (psig)
2-MS-239	1035 (1004 to 1065)	2-MS-239	1035 (1025 to 1045)
2-MS-240	1030 (999 to 1060)	2-MS-240	1030 (1020 to 1040)
2-MS-241	1010 (980 to 1039)	2-MS-241	1010 (1000 to 1020)
2-MS-242	990 (960 to 1019)	2-MS-242	990 (980 to 999)
2-MS-243	1035 (1004 to 1065)	2-MS-243	1035 (1025 to 1045)
2-MS-244	1020 (990 to 1049)	2-MS-244	1020 (1010 to 1030)
2-MS-245	1000 (970 to 1029)	2-MS-245	1000 (990 to 1010)
2-MS-246	985 (956 to 1013)	2-MS-246	985 (975 to 994)
2-MS-247	985 (956 to 1013) .	2-MS-247	985 (975 to 994)
2-MS-248	1035 (1004 to 1065)	2-MS-248	1035 (1025 to 1045)
2-MS-249	1000 (970 to 1029)	2-MS-249	1000 (990 to 1010)
2-MS-250	1030 (999 to 1060)	2-MS-250	1030 (1020 to 1040)
2-MS-251	1020 (990 to 1049)	2-MS-251	1020 (1010 to 1030)
2-MS-252	1010 (980 to 1039)	2-MS-252	1010 (1000 to 1020)
2-MS-253	1035 (1004 to 1065)	2-MS-253	1035 (1025 to 1045)
2-MS-254	990 (960 to 1019)	2-MS-254	990 (980 to 999)

Lift settings are from Tech. Spec. Table 4.7-1, Amend. #195, and have been converted in this table from psia to psig to prevent transposition errors during testing.

SP 2730B-001 Rev. 010-01 Page 3.0f 3

			Attachmer Correction (Sheet 1 of	a Calcu	lation		
	AWO#: <u>M2</u> (Blank c	-02-079 opics of Attachm			ID# 2-MS		
Hydroset QA N	6.(2611 F)				Hydroset S	erial No. (HS-	547)
1.	psig MSSV Set Pro psig Steam Heade Hydroset Infl	r Pressure (Ste	ep 4.2.1)	12 = Exp	ected Hydro	oset Pressure (<u>512.8</u> Step 4.2.3.c.)
- 517	psig Required Pur psig Applied Pum psig Hydroset Cor	p Pressure from	m Hydroset C	Correction	on Chart (St h Chart (Ste 1 - &. 62	ep 4.2.3.d.1) p 4.2.3.d.2)	
Comments:		17,					
	1497	507			Velve	reped	rether A
	512				sing	1 1 1	
	527	517	<u> </u>				
	Hydrost Low, Hydrost Low	1. 108° F up 1697	···· /	ý			
	·			101		/	
		112.8	· · · · · · · · · · · · · · · · · · ·	104		-/	. <u> </u>
		118 :	5-+2	pic.		/	
		<u> </u>					
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				/			
			\sim				
	el of Use ntinuous	STOP	THINK	ACT	REVIEW	SP 2730B Rev. 12 47 of 56	

	-02-07951 (Blank c on calculation b	opies of Atta	Attacn et Using Dre (Sheet chment 8, Sheet ler Pressure of	esser Model 1 1 of 1) et 1 may be rep	Valve	ID# 2-MS	245	
Correctio Step .2.3.(g.)	-02-07951 (Blank c on calculation b	opies of Atta	(Sheet chment 8, Shee	1 of 1) et 1 may be rep	Valve	ID# 2-MS	245	
Correctio Step .2.3.(g.)	(Blank c	ased on Head	chment 8, Shee	et 1 may be rep			245	
Correctio Step .2.3.(g.)	(Blank c	ased on Head						
Step .2.3.(g.)	on calculation b	ased on Head						
Step .2.3.(g.)	Ste				psig using Hyd	•••	1 81.111	
.2.3.(g.) lydroset					have as we have a state		djustments Af	ter Test
	4.5.14.	.(d.3)	Step 4.5.15.(c.2)	Step 4.5.15.(d.)	Step 4.5.18.(b.)		Step 4.5.19.(a.)	
	Steam Header	Hydroset	Hydroset	Valve Set	No	Yès		
	Pressure (psig)	Pressure (psig)	Influence	Pressure (psig)	Initial	Initial	CW or CCW	No. of Flats
.6	835+	463	144.5	978.?	M	tet at 1. Af ;	wi	
• . 6	8354	140	143.5	977.8		is	CW	3
.6	835*	581	181.3	1015-7	a7			
- 6	835+	565	176.3	1010.7	64			
6	8354	560	171.7	1009.12	411			
.6	B35*	556	173.5	1007.9	AND .			
	<u> </u>		L	l			•	
	<u> </u>		L					
			<u> </u>	•				
fluence = Presure G orrection n prior to per binimum ar	Hydroset Pressu Jauge is graduate must be calculate erformance of test mount of times re	ire (PSIG) x 0. d in Hydroset d from Correc t. Hydroset Co equired to mee	312 Influence, the H tion Chart suppl rrection should i et test objective, شناله الماريد	lydroset Pressur lied with Hydros be expressed as subsequent test	e Column should et Calibration I a (+) or (-) val data lines shoul	Documentation. ue in graduatio	This calculatio ns of Hydroset ugh. SP 2730E	
flu Pre orre orre	ence = esure C ection or to pe mum a	ence = Hydroset Pressu esure Gauge is graduate ection must be calculate or to performance of tes mum amount of times r * corrected for	ence = Hydroset Pressure (PSIG) x 0. esure Gauge is graduated in Hydroset ection must be calculated from Correc or to performance of test. Hydroset Co mum amount of times required to mee	ence = Hydroset Pressure (PSIG) x 0.312 esure Gauge is graduated in Hydroset Influence, the H ection must be calculated from Correction Chart suppl or to performance of test. Hydroset Correction should mum amount of times required to meet test objective,	ence = Hydroset Pressure (PSIG) x 0.312 esure Gauge is graduated in Hydroset Influence, the Hydroset Pressure ection must be calculated from Correction Chart supplied with Hydros or to performance of test. Hydroset Correction should be expressed as mum amount of times required to meet test objective, subsequent test	essure Gauge is graduated in Hydroset Influence, the Hydroset Pressure Column should ection must be calculated from Correction Chart supplied with Hydroset Calibration I or to performance of test. Hydroset Correction should be expressed as a (+) or (-) val mum amount of times required to meet test objective, subsequent test data lines shoul * corrected for elevelies a difference	ence = Hydroset Pressure ($PSIG$) x 0.312 esure Gauge is graduated in Hydroset Influence, the Hydroset Pressure Column should be marked N/ ection must be calculated from Correction Chart supplied with Hydroset Calibration Documentation, or to performance of test. Hydroset Correction should be expressed as a (+) or (-) value in graduation mum amount of times required to meet test objective, subsequent test data lines should be lined throw $= 1 \pm (artecher)$ for a level biogram in the forme	ence = Hydroset Pressure (PSIG) x 0.312 esure Gauge is graduated in Hydroset Influence, the Hydroset Pressure Column should be marked N/A. ection must be calculated from Correction Chart supplied with Hydroset Calibration Documentation. This calculation or to performance of test. Hydroset Correction should be expressed as a (+) or (-) value in graduations of Hydroset mum amount of times required to meet test objective, subsequent test data lines should be lined through. The care of the standard form of the standard forme

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Approval Date 09/	/25/03	Effective Date 10/02/03				
Surveilla Generic Information	nce Form					
Form Tide Main Steam Safety	Valve Testing	<u> </u>	Rev. No. 010-			
Reference Procedure	Applicable Tech. Spec.	Applicability (Tech. Spec.)	Frequency			
SP 2730B	4.7.1.1	MODES 1, 2, and 3	See Note*			
This form is being user Tech Spec Surveilla Maintenance Resto (Retest)	ance O System Alignment	Other:				
Specific Information		<u> </u>				
AWO Number M2-02-07951	Lote Date		9/03			
Performance Modes	Prerequisites Completed (Initials)	Precautions Noted (In	ničials)			
Test Authorized By		Date	Partial Surveillance			
Performed By	The	10:05-02 Date / Time 16/9/03:115	7. Yes N			
Accepted By	nili-	Date / Fime /3/10/03 074	Acceptance Criteria			
Approved By Desartment He	C langer	Date 14/10/03	Yes NK			
Shift Manager Notified of Faile	d Test /	Date	CR#: ~/4-			
Surveillance Informatio	n					
Te	st Equipment Type	QA Number	Cal Due Date			
Hydroset		1 QA- JGII F	4/15-104			
Hydroset Pressure G	••••	QA-5018 7	and the set of the			
Steam Header Press	ure Gauge	QA-3-353	4/5/04			
Pyrometer	ATTE MODINE	QA- 6376,	12/26/03			
Performance Verification Performance		QA 5711G				
	Plt		NA			
Comments						
······································	Steam Safety Valves: All valve					
5 year period with a	minimum of 20% of the valves t	ested within any 24 mo	nths. This 20% shall be			
previously untested	valves, if they exist. (from ASN	IE/ANSI OM-1987, Par	t 1, Section 1.3.3)			
	<u></u>	CD 27				

·	Test Information
Valve No. 2-MS-	246 Valve Serial No.: <u>BSO 6257</u>
Valve inspection (circ • Leakage (check dri • Damaged parts • Abnormal condition	
Check 10 below meth	od used to verify valve set pressure:
	In-line test (hydraulic assist lift test)
"As Found"	Off-site test facility
"As Left"	In-line test (hydraulic assist lift test)
	Off-site test facility
If set pressure verified	d at off-site test facility, record: Test Facility: <u>///A</u> PO number: <u>//A</u>
Record Set Pressure:	
	"As Lest" Set Pressure: <u>977,2 126</u> "As Lest" Set Pressure: <u>983, 2 PS16</u>
Test was conducted	in accordance with SP 2730B, "Main Steam Safety Valve Testing (IPTE)" and
test results are accu	
Test Engineer:	Lead: Date: 10-9-03
Management Test 1	Lead: Date: 10-9-03
	· · · · · · · · · · · · · · · · · · ·
	·
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	SP 2730B-001 Rcv. 010-01

Acceptance Criteria

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"As Found" - On first lift, valve opens at design lift setting (-3%, to less than +3%)

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"As Left "- On last two consecutive lifts, valve opens at design lift setting $(\pm 1\%)$ (first lift may be included as one of the two consecutive lifts if first lift is within $\pm 1\%$) [#Ref. 6.4]

Valve Set Pressure Acceptance Criteria							
Valve ID#	"As Found" (psig)	Valve ID#	"As Left" (psig)				
2-MS-239	1035 (1004 to 1065)	2-MS-239	1035 (1025 to 1045)				
2-MS-240	1030 (999 to 1060)	2-MS-240	1030 (1020 to 1040)				
2-MS-241	1010 (980 to 1039)	2-MS-241	1010 (1000 to 1020)				
2-MS-242	990 (960 to 1019)	2-MS-242	990 (980 to 999)				
2-MS-243	1035 (1004 to 1065)	2-MS-243	1035 (1025 to 1045)				
2-MS-244	1020 (990 to 1049)	2-MS-244	1020 (1010 to 1030)				
2-MS-245	1000 (970 to 1029)	2-MS-245	1000 (990 to 1010)				
2-MS-246	985 (956 to 1013)	2-MS-246	985 (975 to 994)				
2-MS-247	985 (956 to 1013)	2-MS-247	985 (975 10 994)				
2-MS-248	1035 (1004 to 1065)	2-MS-248	1035 (1025 to 1045)				
2-MS-249	1000 (970 to 1029)	2-MS-249	1000 (990 to 1010)				
2-MS-250	1030 (999 to 1060)	2-MS-250	1030 (1020 to 1040)				
2-MS-251	1020 (990 to 1049)	2-MS-251	1020 (1010 to 1030)				
2-MS-252	1010 (980 to 1039)	2-MS-252	1010 (1000 to 1020)				
2-MS-253	1035 (1004 to 1065)	2-MS-253	1035 (1025 to 1045)				
2-MS-254	990 (960 to 1019)	2-MS-254	990 (980 to 999)				

Lift settings are from Tech. Spec. Table 4.7-1, Amend. #195, and have been converted in this table from psia to psig to prevent transposition errors during testing.

SP 2730B-001 Rev. 010-01 Page 3 of 3____

Hydrose	Attachment 7 et Correction Calculation (Sheet 1 of 1)	
AWO#: <u>M2-02-07</u>	•	
· · ·	therent 7, Sheet 1 may be reproduced as accessary)	1
ydroset OA No. (26 il F) <u>985</u> psig MSSV Set Pressure (Step	Hydroset Serial No. (HS JY 7)	
- <u>235</u> psig MSSV Set Pressure (Step - <u>254</u> psig Steam Header Pressure (S		
= <u>JUSI</u> Hydroset Influence (Step		
<u>485</u> psig Required Pump Pressure	e from Hydroset Correction Chart (Step 4.2.3.d.1)	
	from Hydroset Correction Chart (Step 4.2.3.d.2)	
psig Hydroset Correction (Ste	ep 4.2.3.e.) x 0.312= $(^{+}/_{-})$ <u>-+ 6</u> Hydroset Influence (Step 4.2.3.f.)	
comments: 498	ي جرر	┛
470		
		- ·
	Hydroiset kap 113.7°F	-
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	·			Attacn					
		Te	st Data Shee	et Using Dre	sser Model 1	1566 Hydros	et		
	1000 H. HAO	07-07051		(Sheet	1 of 1)	S'alar	ID# 2-MS-	041	
	AWO#: <u>///</u>	<u>-02-07951</u> (Plank d	onias of Attac	hmant & Shaa	t 1 may be rep				
		<u>````</u>	4	· · · · · · · · · · · · · · · · · · ·					
Hydro	oset Correctio	n calculation b		er Pressure of	(840)	psig using Hy			
			Test Data				Valve A	Adjustments Af	ter Test
Step 4.5.14.(d.1)	Step 4.2.3.(g.)	Sto 4.5.14		Step 4.5.15.(c.2)	Step 4.5.15.(d.)	Step 4.5.18.(b.)		Step 4.5.19.(a.)	,,
Test No.	Hydroset	Steam Header	Hydroset	Hydroset	Valve Set Pressure	No	Yes		
& Time	Correction	Pressure (psig)	Pressure (psig)	Influence	(psig)	Initial	Initial	CW or CCW	No. of Flats
1. 1048	5	* 834-	407,03	126.9	960.3		TRI	CIN	3
2. 116	•	1834	448.58	139.9	- 976 ,3°	973,3	TRI	LW	1
3. 1131	- 6	+ 33 Y	467.0	145 7	979.1	epiz			
1. 1/99-	6	834-	437.	136.3	9197			141 VALID T	155 965
5. 1149	6	* 834	461	143.8	977.2	SAB			
6. 1154	6	* 834	480	149.8	983.2	CAB			1
7.			I ¥						
۶.				•					
<i>.</i>							·		
10.								1	
11.								-	
12.						<u></u>		-	
Notes: X S I. Set Pre 2. Hydros 3. If Hydr 4. Hydros comple	ssure = Steam et Influence = oset Presure G et Correction r ted prior to pe	Header Pressur Hydroset Pressur Hydroset Pressur auge is graduate nust be calculate rformance of tess mount of times 1	e + (Hydroset 1 ure (PSIG) x 0.3 ed in Hydroset 1 ed from Correct st. Hydroset Cor	Pressure x 0.312 312 Influence, the H ion Chart supp rrection should	?) + Hydroset C Iydroset Pressur lied with Hydros be expressed as	e Column shou set Calibration 1 a (+) or (-) va	Documentation lue in graduation	n. This calculation ions of Hydroset ough.	Influence.
Level	ofUse		 40	¥.		•1 		SP 27301	3
	nuous		STOR	P THINK		EVIEW		Rev. 12 48 of 56	

09/25/03			Effective Date 10/02/03				
SULTVeillan	nce Form						
Form Tide Main Steam Safety V	alve Testing	•		Pen	// Participant r. No. 010		
Reference Procedure	Applicable Tech. Spec.	Applica	bility (Tech. Spec.)	Frequency	_01		
SP 2730B	4.7.1.1	мо	DES 1, 2, and 3	See Note*			
This form is being used	for the following:						
Tech Spec Surveillan	ce 🛛 System Alignment	C	Other:				
Maintenance Restora (Retest)	tion D Non-Tech Spec Surveillnce (PM)			·····			
Specific Information							
	le Date N/A		Schedule Start Date	1/03			
Performance Modes Pri	erequisites Completed (Initials)		Precautions Noted (Init	bals)			
Test Authorized By			Date 10 • 7 • 0 3	Partial Su	urveillance		
Performed By	el i Ri		Date / Time	Yes	N		
Accepted By			10/5/03_17/7 Date / Time	Acceptance	Criteria		
Jus Compi	~ ~		1410/03 074:		hed		
Approver/By (Department Vead	pr Designee) Gub (m		Date IV/IC /03	Yes	N		
Shift Manager Notified of Failed	Test / NA-		Date N/A	CR#:	L		
Surveillance Information							
Test	Equipment Type		QA Number	Cal Du	e Date		
Hydroset		1	QA-2611.F	4/15/0	5-04.		
Hydroset Pressure Ga	uge (if applicable)	•		4/5/00			
Steam Header Pressu	re Gauge		QA-5384	3 4/5/eg	Ý		
Pyrometer			QA-6316	12/6/0	5		
PTC CALIBRATCA Performance Verification Perform	nod Bu		RA OSIG	4'/./c.	ŕ		
	ын. М.И-			~/4			
Comments							
*Note: Class 2 Main S	iteam Safety Valves: All valve	es shall	be tested within e	each subseque	ent		
5 year period with a m	inimum of 20% of the valves t	ested v	vithin any 24 mon	ths. This 20%	shall be		
previously untested va	lves, if they exist. (from ASM	E/ANS	I OM-1987, Part	1, Section 1.3.	.3)		

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Valve in • Leak:	e No. 2-MS-	Test Information
Valve in • Leak:	r No. 2-MS-	Test Information
Valve in • Leak:	e No. 2-MS-	Test Information
Valve in • Leak:	e No. 2-MS-	Test Information
Valve in • Leak:	e No. 2-MS-	
• Leak		- <u>247</u> Valve Serial No.: <u>BN 4961</u>
	spection (circ oge (check dri oged parts rmal conditio	
Check J	- below meth	hod used to verify valve set pressure:
	s Found"	X In-line test (hydraulic assist lift test)
		Off-site test facility
.	As Left"	In-line test (hydraulic assist lift test) Off-site test facility
If set pr	essure verifice	ed at off-site test facility, record: Test Facility: <u>N/A</u> PO number: <u>N/A</u>
Record	Set Pressure:	*As Found" Set Pressure: <u>967.8</u> *As Left" Set Pressure: <u>993.9</u> *As Left" Set Pressure: <u>989.9</u>
test rest Test En	ults are accu	Ettal Date: 10/9/0-

Acceptance Criteria

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"As Found" – On first lift, valve opens at design lift setting (-3%, to less than +3%)

"As Left "- On last two consecutive lifts, valve opens at design lift setting $(\pm 1\%)$ (first lift may be included as one of the two consecutive lifts if first lift is within $\pm 1\%$) [#Ref. 6.4]

Valve Set Pressure Acceptance Criteria							
Valve ID#	"As Found" (psig)	Valve 1D#	"As Left" (psig)				
2-MS-239	1035 (1004 to 1065)	2-MS-239	1035 (1025 to 1045)				
2-MS-240	1030 (999 to 1060)	2-MS-240	1030 (1020 to 1040)				
2-MS-241	1010 (980 to 1039)	2-MS-241	1010 (1000 to 1020)				
2-MS-242	990 (960 to 1019)	2-MS-242	990 (980 to 999)				
2-MS-243	1035 (1004 to 1065)	2-MS-243	1035 (1025 to 1045)				
2-MS-244	1020 (990 to 1049)	2-MS-244	1020 (1010 to 1030)				
2-MS-245	1000 (970 to 1029)	2-MS-245	1000 (990 to 1010)				
2-MS-246	985 (956 to 1013)	2-MS-246	<u>985 (975 to 994)</u>				
2-MS-247	985 (956 to 1013)	2-MS-247	985 (975 to 994) •				
2-MS-248	1035 (1004 to 1065)	2-MS-248	1035 (1025 10 1045)				
2-MS-249	1000 (970 to 1029)	2-MS-249	1000 (990 to 1010)				
2-MS-250	1030 (999 to 1060)	2-MS-250	1030 (1020 to 1040)				
2-MS-251	1020 (990 to 1049)	2-MS-251	1020 (1010 to 1030)				
2-MS-252	1010 (980 to 1039)	2-MS-252	1010 (1000 to 1020)				
2-MS-253	1035 (1004 to 1065)	2-MS-253	1035 (1025 to 1045)				
2-MS-254	990 (960 to 1019)	2-MS-254	990 (980 to 999)				

Lift settings are from Tech. Spec. Table 4.7-1, Amend. #195, and have been converted in this table from psia to psig to prevent transposition errors during testing.

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PTC FAST PRES CAR OGI 6 4/10/00/

MOGAGE EP 26255

10 3 7001

Attachment 7 Hydroset Correction Calculation (Sheet 1 of 1)					
AWO#: <u>M2-02-079</u> 51 (Blank copies of Attachment 7, Sheet	Valve ID# 2-MS- <u>247</u> I may be reproduced as necessary)				
Hydroset QA No. (2611E)	Hydroset Serial No. (
<u>985</u> psig MSSV Set Pressure (Step 4.2.3.a.)					
- <u>839</u> psig Steam Header Pressure (Step 4.2.1)					
= <u>146</u> Hydroset Influence (Step 4.2.3.b.) ÷	0.312 = Expected Hydroset Pressure (Step 4.				
<u>470</u> psig Required Pump Pressure from Hydro	set-Correction Chart (Step 4.2.3.d.1)				
- 474 psig Applied Pump Pressure from Hydrose	et Correction Chart (Step 4.2.3.d.2)				
= $-\frac{9}{100000000000000000000000000000000000$	$0.312 = (^+/_) - 1.2$ Hydroset Influence (Step 4.				
Comments:	$\overline{}$				
15 TEST MAGE ON HYDRO	JET J				
/ i17 · F ·					
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Level of Use Continuous STOP THINK	SP 2730B ACT REVIEW Rcv. 12				

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				Attacn	ment 8			······	
		Te	st Data She	et Using Dre	sser Model 1	1566 Hydros	set		•
	MOH. M7	-02-07951		(Sheet	1 of 1)	Valu	e ID# 2-MS-	247	
			copies of Attac	hment 8, Shee	et 1 may be rep			<u>~</u>	
Hydr	oset Correctio	n calculation h	•		• •	psig using Hy	• •		
		n calculation i	Test Data		1 240 1	hail name m		Adjustments Af	ter Test
Step	Step	Ste		Step	Step	Step	, and a	Step	
4.5.14.(d.1)	4.2.3.(g.)	4.5.14		4.5.15.(c.2)	4.5.15.(d.)	4.5.18.(b.)		4.5.19.(a.)	
Test No.	Hydroset	Steam Header Pressure	Hydroset Pressure	Hydroset	Valve Set Pressure	No		Yes	
& Time	Correction	(psig)	(psig)	Influence	(psig) ·	Initial	Initial	CW or CCW	No. of Flats
1.1318	-1.2	841*	410.22	12.7.7	967.8		TRI	<u> (</u> w	2
2. 1748	-1.2	\$ 39 \$.	413.28	128.9	962.7		us	C w	2
3. 1408	-1.2		493.8	154.1	993.9	TRE		-	
4. 1714	-1.2	841 #	481.2	150.1	989.9	TRI			
5.									·
5									
7.	·								
3.									
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10.							ļ		
11.							ļ		
12.]					I		L
. Set Pre Hydros If Hydr Hydros comple	ssure = Steam et Influence = oset Presure G et Correction n ted prior to per	FE-2 LAVA FH Header Pressur Hydroset Pressur auge is graduate nust be calculate formance of tes nount of times r	e + (Hydroset 1 are (PSIG) x 0.3 ad in Hydroset 1 ad from Correct t. Hydroset Cor	12 nfluence, the H ion Chart suppl rection should l	ydroset Pressur ied with Hydros be expressed as	e Column shou et Calibration a (+) or (-) ya	Documentation	n. This calculatio ions of Hydroset ough.	Influence.
Level o Contin	of Use nuous		STOP	тнімк	Act RI	ÉVIEW		SP 2730E Rev. 12 48 of 56	3

- 	<u>2-1115-2</u>	<u> 19 </u>	<u></u>		. <u>.</u>	 ,
Form Approval Approval Date 09/25/	13	Effective	Date 10/02/03		<u> </u>	ון
Surveillance		L	10/02/03			ו
orm Title Main Steam Safety Valvo	: Testing				Rev. No. 010-]
Reference Procedure	Applicable Tech. Spec.	Applic	ability (Tech. Spec.)	Frequenc	/01	$\left\{ \right\}$
SP 2730B	4.7.1.1	мо	DES 1, 2, and 3	See Not	c*	
This form is being used for the spec Surveillance Maintenance Restoration (Retest)	System Alignment	C) Other:			
Specific Information	<u> </u>		<u> </u>			וי
AWO Number M2-02-07951	te		Precautions Noted (Initi	<u>/03</u> ats)]
Test Authorized By	^¥,		Date		ial Surveillance	-
Performed By C The	IRIn.		10.09.03 Date/Time 10.863 1509		Yes No	
Accepted By A	esignee)		Date / Time / \/ \v/v3 \0740 Date		Nance Criteria Satisfied Yas Na	
Shift Manager/Netried of Failed Test			11/10/03 Date NA		~ ~	
Surveillance Information						
Test Equip	oment Type		QA Number	c	al Due Date]
Hydroset Hydroset Pressure Gauge		I	QA- 2611 F			
Steam Header Pressure G Pyrometer PTE Cal. brook	-		QA- 5389 QA- 6376 QA- 09:6	4/s/c 12/26/ 4/1/0		
Performance Verification Performed I				Date		
Comments						-
*Note: Class 2 Main Stea					···	
5 year period with a minin previously untested valves		_				
			SP 2730 Rev. 010	B-()01)-01]

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		Test In	formation	
Valve No. 2-MS-	349	2 Valve Serial	No: BN 4965	
Valve inspection (circ • Leakage (check dri • Damaged parts • Abnormal conditio	p pan)	t and describe discrepancy i	fany): SAT)/UNSAT	
Check / below meth	od usec	I to verify valve set pressure	:	
	X	In-line test (hydraulic ass	ist lift test)	
"As Found"		Off-site test facility		
	X	In-line test (hydraulic ass	ist lift test)	
"As Left"		Off-site test facility	······································	
If set pressure verifie	i at off	-site test facility, record:	Test Facility:N/A PO number:N/A	A
Record Set Pressure:			"As Found" Set Pressure: "As Left" Set Pressure: "As Left" Set Pressure:	992.8
fest was conducted est results are acc fest Engineer: Management Test	irate.		3, "Main Steam Safety N	/alve Testing (IPTE)" : Date: <u>12/9/8 =</u> Date: <u>10-9-63</u>

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Acceptance Criteria

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"As Found" – On first lift, valve opens at design lift setting (-3%, to less than +3%)

"As Left "- On last two consecutive lifts, valve opens at design lift setting $(\pm 1\%)$ (first lift may be included as one of the two consecutive lifts if first lift is within $\pm 1\%$) [*Ref. 6.4]

	Valve Set Pressure Acceptance Criteria							
Valve ID#	"As Found" (psig)	Valve ID#	"As Left" (psig)					
2-MS-239	1035 (1004 to 1065)	2-MS-239	1035 (1025 to 1045)					
2-MS-240	1030 (999 to 1060)	2-MS-240	1030 (1020 to 1040)					
2-MS-241	1010 (980 to 1039)	2-MS-241	1010 (1000 to 1020)					
2-MS-242	990 (960 to 1019)	2-MS-242	990 (980 to 999)					
2-MS-243	1035 (1004 to 1065)	2-MS-243	1035 (1025 to 1045)					
2-MS-244	1020 (990 to 1049)	2-MS-244	1020 (1010 to 1030) [•]					
2-MS-245	1000 (970 to 1029)	2-MS-245	1000 (990 to 1010)					
2-MS-246	985 (956 to 1013)	2-MS-246	985 (975 to 994)					
2-MS-247	985 (956 to 1013)	2-MS-247	985 (975 to 994)					
2-MS-248	1035 (1004 to 1065)	2-MS-248	1035 (1025 to 1045)					
2-MS-249	1000 (970 to 1029)	2-MS-249	1000 (990 to 1010)					
2-MS-250	1030 (999 to 1060)	2-MS-250	1030 (1020 to 1040)					
2-MS-251	1020 (990 to 1049)	2-MS-251	1020 (1010 to 1030)					
2-MS-252	1010 (980 to 1039)	2-MS-252	1010 (1000 to 1020)					
2-MS-253	1035 (1004 to 1065)	2-MS-253	1035 (1025 to 1045)					
2-MS-254	990 (960 to 1019)	2-MS-254	990 (980 to 999)					

Lift settings are from Tech. Spec. Table 4.7-1, Amend. #195, and have been converted in this table from psia to psig to prevent transposition errors during testing.

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Hydroset Corr	chment 7 ection Calculation ect 1 of 1)	
AWO#: <u>M2-02-07957</u> (Blank copies of Attachment 7, SI	Value ID# 2-MS- <u>249</u> heet 1 may be reproduced as necessary)	
Hydroset QA No. (26// FC)	Hydroset Serial No. ()
<u>1000</u> psig MSSV Set Pressure (Step 4.2.3.a.)		
- SYC psig Steam Header Pressure (Step 4.2.)		
= $\frac{160}{100}$ Hydroset Influence (Step 4.2.3.b.)	$\div 0.312 =$ Expected Hydroset Pressure (S	<u>-5/</u> tep 4.2.3.
510 psig Required Pump Pressure from Hy	droset Correction Chart (Step 4.2.3.d.1)	
	roset Correction Chart (Step 4.2.3.d.2)	
= $-\frac{y'}{y}$ psig Hydroset Correction (Step 4.2.3.e.		. 2
		iep 4.2.3.
Comments: 2nd 11ft 116. Por	hower	
113 350 +34 : ((x)	
114.6° = 47 est		
	513	
42	\bigcap 500	
42	0 500	
42.	0 500	
42.	0 500	
42.	0 500	
<i>42</i>	0 500	
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<u> </u>	0 500	
<u> </u>	0 500	
42	0 500	
Level of Use Continuous	SP 2730B	

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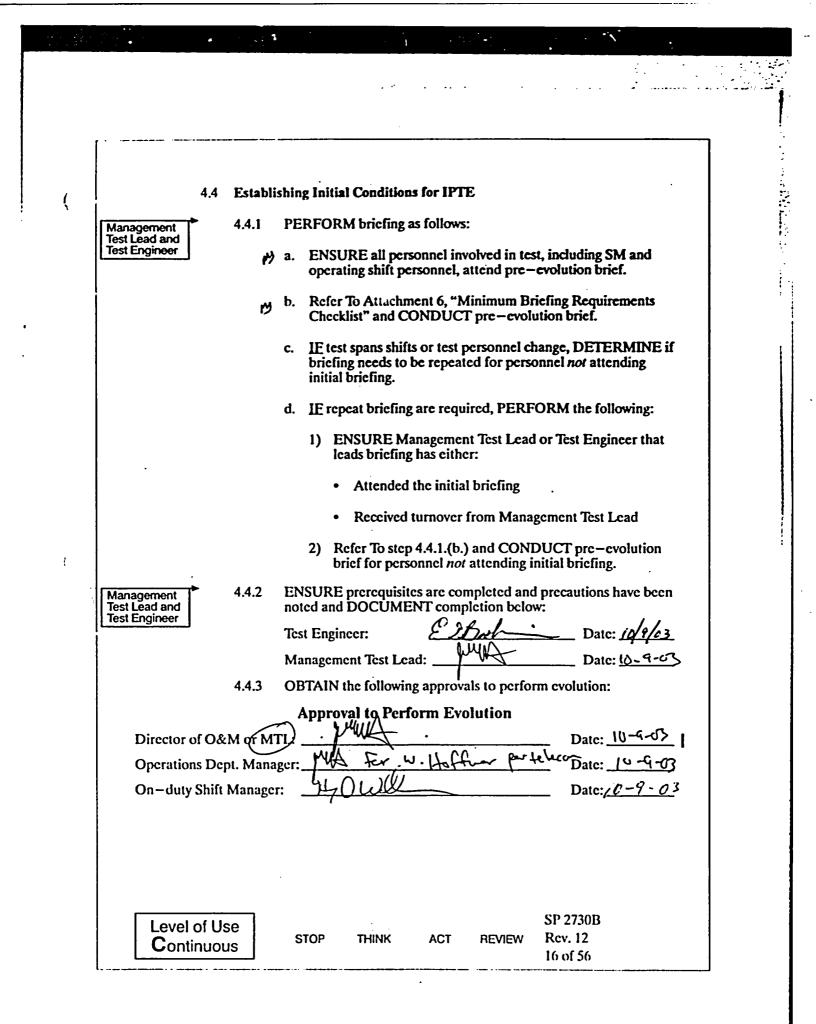
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				Attach	ment 8				
		To	est Data She	et Using Dre	esser Model	1566 Hydros	set		
	AWO#: <u>M2</u>	<u>-02-07951</u> (Blank)	copies of Attac	•	: 1 of 1) et 1 may be rei		e ID# 2-MS- cessary)	219	
Hydr	oset Correctio	on calculation l	•	-		psig using Hy	· · · · · ·	0. (9: 11 6)
			Test Data			F887		Adjustments Af	ter Test
Step 4.5.14.(d.1)	Step 4.2.3.(g.)	St. 4.5.14	ep J.(d.3)	Step 4.5.15.(c.2)	Step 4.5.15.(d.)	Step 4.5.18.(b.)		Step 4.5.19.(a.)	
Test No.	Hydroset	Steam Header	Hydroset	Hydroset	Valve Set	No		Yes	
& Time	Correction	Pressure (psig)	Pressure (psig)	Influence	Pressure (psig)	Initial	Initial	CW or CCW	No. of Flats
1438	-1.2	839*	504.4	157,4	995.2	TRI			
1445	-1.2	839 *	460.98	143.8	981.6		TRA	BCW	3
1503	-1.2	840#	693.72.	1540	992.9	TRI			
1509	-1.2	1340 *	497.88	155.3	994.1	TAI			
	•								
•									
•		. <u>.</u>		•					
•	l	l							
Hydros If Hydros Hydros comple	essure = Steam set Influence = roset Presure G set Correction n eted prior to per	Header Pressur Header Pressur Hydroset Press auge is graduate nust be calculate formance of tes nount of times i	e + (Hydroset I ure (PSIG) x 0.3 ed in Hydroset I ed from Correct it. Hydroset Cor	12 nfluence, the H ion Chart suppl rection should	lydroset Pressu lied with Hydro be excressed as	re Column shou set Calibration	Documentatio	n. This calculatio ions of Hydroset ough.	Influence.
	of Use nuous		* STOP	тңімк	ACT	EVIEW		SP 2730E Rev. 12 48 of 56	5

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	Attachment 6 Minimum Briefing Requirements (Sheet 4 of 4)
AWO#: <u>M z</u>	$\frac{-02-07951}{\text{CHECKLIST}}$ Date/Time: 10-9-03 0500
Check (1)	Management Test Lead Items
	Management expections
11	Need to exercise caution and conservatism
1 1	Need to maintain a high margin of safety (placing and performing actions "right the first time" over urgency to complete the procedure or evolution quickly
11	Need to maintain open and clear communications
	Command and control issues
11	Overall test performance
11	Lessons learned from industry operating experience
11	Personnel responsibilities and authorities, especially if those responsibilities are different from normal
· .]	When and how to terminate the procedure or evolution if any of the termination criteria are met
/ _	Discussion to ensure personnel know and understand what is expected of them. All personnel involved in evolution, including SM and operating shift personnel, shall attend briefings. Repeat briefings may be conducted
Check (1/)	. Test Engineer Items
1	Current plant status and system alignment
15	Overall effect on plant systems and expected alarms
1 1	Prerequisites and initial conditions
1 1	Procedure limits and precautions
	Potential risks and consequences
1 1	Contingency plans to mitigate any potential problems
	Differences between test and normal operating procedure and practices
	Termination criteria and contingency plans
	When and how to terminate the procedure or evolution if any of the termination criteria are met
1 5	Expected test duration
V	Technical Specification limitations, deviations from normal plant parameters, setpoints, and lim- its
	Test equipment
J	Communication methods
	Restoration steps
Level o Contin	

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SP	2730B Pre-Jo	b Brief	10/09/2
Name (print)	DEPT.	Signature	
George McGoven	SHE ENG	lis Ergh-	
Davis CARLING	SAFETY	Ascinc	
JINN J. BEMis	Lesip Are	Jac Dun	5
Warren Bullows	Sik Eng	Wing,	
Tom Ickei	STR. ET a	MA CO	
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ERIC BOOKMILLA	IST	SyB-	
JUE FRANKS	3 085	MA	
HARMED Willisms-	Jops	940,20	
HURAND Williams- Budy Samson	2013	CIA	
Michael Cote	OPS TRAIG	milts	
Gerald H. Baker	2/0PS	Length 5	
mile weise	U-20FS	Muliae	•
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SP 2	730B Pre-J	ob_Brief	10/09/20
Name (print)	DEPT.	Signatur	
Larri L. Pharack	N'NI / MM	Narry J. Shara	sh
Almen A RAUSCH	NNELMM	Am Ala	und
Charles R. Toulor	NNIMO	Charles B. Joslo	
William R Hossell	Nutlan	Willing Pla	- all
RAYMOND G. RIOS	NNELAM	RandMR.	
Deborah G. Coll	NNI/mm	Albert G. C	l
BRIAN A COLL	NNJ/mn	B-G. Coll	
Joe Ball	DNC/MINTC	Du Balli	
Robert Peters	ONC MN]	c Volut P.	hitu
Tom ICKes	DWC/ED3 -	1.Ch	
Jeff Baver	DUC/MUTC	JABan	
Mark A. Castel	MIIIMM	Mart.	autur 1
Don Gorence	DNUMNTC	Dan	
CHROSTILD A RIDS	HIM VALLES	clintino offio	
Bruce M. Kinney	min values	Bud un Kin	T
Town J. Bannis	lang. Erro.	7. S. Jami	/
ALAN BOWERS	NUSIAM	de Bour	
Warren Bellows	Sile Eng.	4Ban	
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Attachment 10 Temporary Modification Log (Sbeet 1 of 4)								
(Bla	AWO#: <u>192-02-079</u> 5 / (Blank copies of Attachment 10, Sheet 1 may be reproduced as necessary) <u>Test Instruments</u>							
Valve ID#	Test Instrum	nent Installed	Test Instru	ment Removed				
Valve ID#	Installed by:	Verified by:	Removed by:	Verified by:				
PT4223 PT4229	5AB	IRP	RP	53R				
PT4229	- <u>5</u> 9B	RP	RP	5AB				
			i i					
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COMMENTS:	······							
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Attachment 10 • Temporary Modification Log (Sheet 2 of 4)

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AWO#: 42-02-0295

(Blank copies of Attachment 10, Sheet 2 may be reproduced as necessary) Hydroset

Valve ID#	Hydrose	Installed	Hydrose	t Removed			
	Installed by:	Verified by:	Removed by:	Verified by:			
J-1115-245	CATTA	duts Tayl	CAPIDE	Charles Dat			
2-105-246	OALion	Char Jula	Ju Bill				
J-145-239	JuBall	Ronberte	Je Ball	R.M Phi			
2-105-247	Chliss	come Into	BRIDNICH	PRaint			
2 MS -247	- + fino	Aunto 12/-	BRIAN Coll Q. Raush	BUCEM Kinney			
	Pagc of						
Level of I Continue		THINK ACT	REVIEW Ro	2730B ev. 12 of 56			

Attachment 10 Temporary Modification Log (Sheet 3 of 4)

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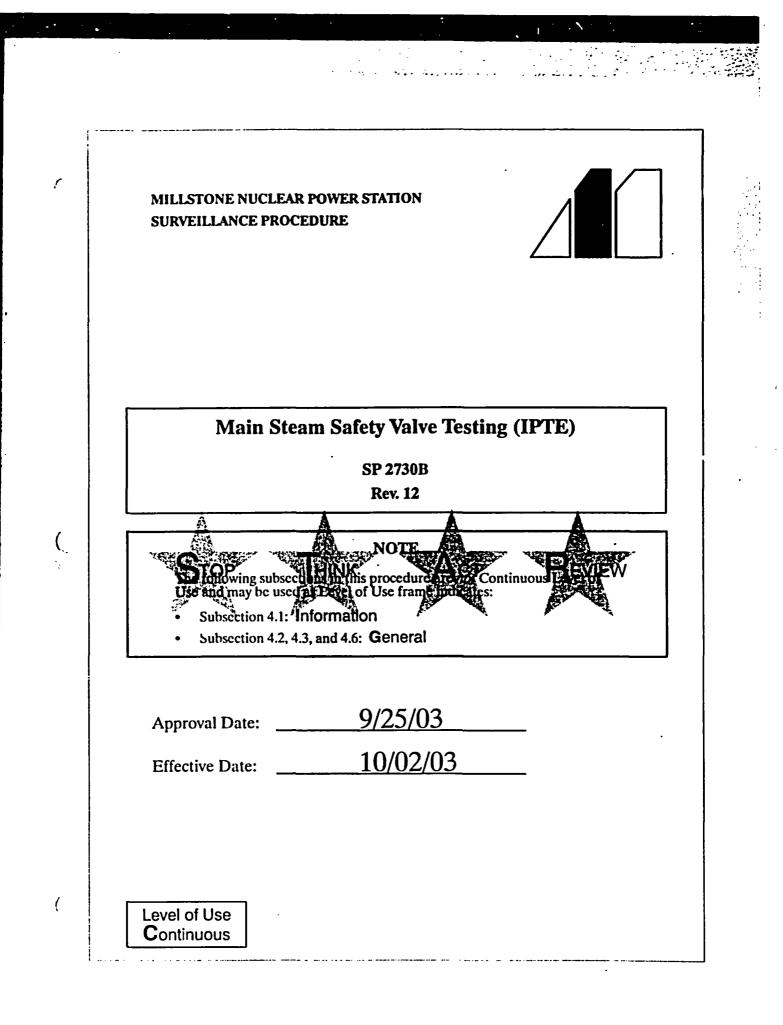
(

AWO#: m2-02-02951

(Blank copies of Attachment 10, Sheet 3 may be reproduced as necessary)

Spring Compression Tool

Valve ID#	Spring Compress	ion Tool Installed	Spring Compress	Spring Compression Tool Removed		
Valve 1D#	Installed by:	Verified by:	Removed by:	Verified by:		
2-45-245	RAY RIOS	Marik feel	For Ball	RAY Rios		
2-175-246	Joe Ball	Marls Castrel	Bruckinney	Alam RAusol		
2-115-2117	Jac Ball.	Murk feel	Buch	C. Aand		
2-115-249	for Ball	Marth Custeel	P. Rauet	Bricem Kinney		
	V					
				· ·		
		Page of				
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	Approval Date			Effective Date			
		PE Exempt	,	`.			
Des	k Document Number: <u>M202079</u> cribe specific job/task and Safety ard(s) for which PPE exemption(s) desired:						
	Exemption Requested (select all that app						
7	Hard Hat - Potential of injury to head from and all of the following conditions are requ		ts or bumping into object	cts must not exist,			
	No exposed electrical work in progress		n of the exemption.				
	• No overhead crane work performed for						
l	 No overhead work will be performed for Alternate protection is provided to preve Reason for exemption / alternate protection 	ent contact with	h falling objects, as desc				
-	U						
•	Exemption Start Date: 10/9/03 Approved: 1000010000 4014	End Date:	Polloce Supil	5527			
	Safety Glasses	ignature VjG	Felecol mer	phone			
ب	Reason for exemption / alternate protection	in place:	·				
	Requested:			<u></u>			
		Signature	Title	phone			
	Exemption Start Date:	End Date:					
	Approved:	Signature	Title	date			
	Other - describe:			······································			
	Reason for exemption / alternate protection	in place:					
				5574			
	Requested: DA GOVENCO Keller FLS/Job Leader, Name (print) Exemption Start Date: 10/9/03	Left of The Signature End Date: <u>1</u>	Childos	phone			

Attachment 1 Pre-Job Brief Checklist

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(Sheet 1 of 2)

AWO NO.	Planner	Date:
M2 02 07951	Bill Hughes	03/01/2003
Team Lead: Gorence/Kellogg		
Job Leader: D (Drouth		

During Pre-Job Brief, discuss Mandatory Review Items and all other checked items.

Initials	1	MANDATORY REVIEW ITEMS -Required for each Pre-Job Brief
91	* Pro	per authorization to begin work
17	* Rev	iew the job description, its evolution and objectives
.92		iew job hazard assessment form (MP-19-SH-SAP01-001)
N		cribe equipment and plant response to be expected while forming work (potential plant impact)
N	* Assi and	ign Lead and individual responsibilities, verify assignees have sufficient and current qualifiations.
NAU	* Rev	iew safety tagout
01	(Op	ntify notifications or permission required erations, Supporting Departments, etc. ; stick welding may cause ske detectors to alarm; call control room prior to start of job)
02	* QA	/ ANI hold points
52	* Pro	tective clothing (PPE)
5	* Ove	rview past experiences on similiar jobs
W	* Rev	iew OE included in packages
U.	* Con	firm procedure revision and change numbers
4	* Add	lress worker concerns / questions - specify
22	* Add	Iress QA material storage (if QA Material used)
its	* Rev	iew ATT.4 "Vendor/Contractor Responsibilities" as appropriate
Planner	TL	High Risk Activities
		 * Summarize Critical Steps (state of the plant, system or component depends solely on the individual worker, consequences of error is intolerable)
		* Anticipate traps (Error Likely Situations)
		* Evaluate Consequences (If Error Realized)
		* Evaluate Defenses (To Prevent Both Potential Errors and Events)

Planner	TL	ALARA
		* RWP Requirements / ALARA / ChangingConditions
		* Radiation Precautions

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Attachment 3 Post-Job Brief Checklist

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(Sheet 1 of 2)					
AWO NO.	Equipment I.D. No.	Date:			
M2 02 07951	2316		03/01/2003		

FLS: Gorence/Kellogg	
Job Leader: V. Gordner	

	Checklist
/	Was task accomplished with the expected results? yes - four values justic
	lift on low side.
	1 UT
	Is this the way the job should be performed in the future? Work into possible frew techarlog
	Is this the way the job should be performed in the future? Look into possible frew technologe (Egypent / vm by) Possible MS pressen Xpietty upgrale to QA/cole upits -
	Were the procedures accurate/adequate? MITE it off which mobiles installed in which importon, No written to perform only 1 side at a time as in the
	which importon. No written to perform only I satisfatime as in the
	Was the job description correct for the work being performed?
	Were resources and information sufficient?
	<i>よんか</i>
	Was the training for the job appropriate and effective?
	miciel to make lotter mock - 4A
	Were planning and scheduling organized to reduce potential for human error?
	17.52 17.52
	Were work processes effective and supportive?
	WARE HOUSE SUPPORT For TUBNO WAS IN ASRGUITTE

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Attachment 3 Post-Job Brief Checklist

(Sheet 2 of 2)

07951	2316
	Comments
Did Super	vision provide the needed support and appropriate guidance?
L	165
	sion aware of conditions (performance traps) that, if not corrected, could lead to human time task is performed.
LICHT	TICE PLAN UKFORD
	y way this job could have been done better?
<u> </u>	TES NO
Was a wor	k planning feedback report filled out?
	NØ
Discuss an	y lessons learned required changes to procedure, AWO, work practices, etc.
	YEY DONK
Record ma	aterial and spare parts used with stock codes.
	r (A
Is job site	cleaned and in better condition than "As Found"? (i.e., TR Tags removed)
	YE:>
Are tools,	equipment and spare parts returned to proper storage location?
OTHER C	ONCERNS, QUESTIONS - (specify below)

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	3/17/01 oval Date				08/31/01 Effective Date
lob Haz	zard Assessment, Pa	In A: Hazard C	Control Worksheet		Page of
Work [Document Numbers	Work Description	on / Task Description	•	
M2 02 (07951	TEST MAIN STE	AM SAFETY VALVES		
For the 1 1 2. 2	skill of the craft" tra guardrails, barriers, used. No additional	ecked "yes" in Part I ining and qualificati etc.), and work does protection is presen d protection warran	ted (described below).	otectivie measures cu	arrently in place (i.e
Cklst Item	Describe Safety Hazards Ident	ified (Engineer	Hazard Control - Describe how ing Controls, Administrative Con	•	
3a	HOT ENVILUMMEN	IT HENT SI	RESS EVALUATION PL	A MP-19-SH-RE	FOISIL
	,,.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		HOMI STREESS MI	MBENENT
		(19/103	s religinary temperation	ture reading.	112 00800
		Donot	leave hydroseton	alve with how	attendent
			·		
		ļ		•.	
		[
		1			
Information	tion below not required	provided results of Jo	b Hazard Assessment are doc	umented in AWO syste	m.
Prepare	ed by: Bill Hughes		Planne	4848	03/01/2003
	Pri	nt Name	Title	Phone	Date
Approv	/ed: Gorence/Kello	99)/tru	FLS	3/4/05
	Supervi	sion, Print Name	Sign Name	Title	Date
				Earm)	4P-19-SH-SAP01-00

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<u>Checkfist Questions</u> : Use the following questions to review work activity and identity Safety lazards associated with specific work/work phase.	YES	NO	• SSM Section(s
 Does the job expose personnel to, or will personnel work with, hazardous or potentially hazardous materials, energy or conditions, such as: 			
a. Asbestos containing materials (floor tiles, insulation, adhesives, etc.)?			1, 24, 26, 2
b. Lead containing materials (lead not encased)?			2, 17, 28, 2
c. Paint removal (requires testing for lead; may require testing for PCB's)?		Ó	13, 17, 24,
d. Chemicals (corrosive, reactive, solid, liquid, gaseous, paint, solvent, etc.)?			2, 24, 26
e. Cryogenic fluids (liquid nitrogen, super-cooled gases, etc.)?			5, 24, 26, 2
f. Non-ionizing radiation or intense light sources (lasers, laser light, weld arcs, ultraviolet/infrared sources, etc.)?			16, 24, 26, 2
g. Hot materials, open flame (soldering, brazing, welding, cutting, burning)?		0	24, 29
h. Electrical systems (AC or DC, power, instrumentation)?			6, 24
i. Hazardous energy control, lockout, tagout ?			12,26
j. Water, steam, air, hydraulic or pneumatic systems, residual pressure, temporary lines, HELB?	ত		12, 13, 24
k. Slips, trips, and falls; existing or caused by work (loose, slippery or wet surfaces; removal of flooring, decking, grating safety railing)?			. 26,28
1. Explosion or fire potential (hydrogen, volatile or flammable materials)?			13, 24, 26,
m. Ionizing radiation (x-rays, other)?			(note HP)
n. Loud noises, possible hearing damage?			22, 24, 26
o. On or near bodies of water (drowning hazard)?			8, 24
p. Underwater or diving operations?			24 (note a
q. Demolition, dismantling, or removing any load bearing structure?			1, 26, 24
Other potentially hazardous materials (e.g.: non-asbestos insulation, high dust levels, etc.)? Describe:			
2. Does the job utilize, or will personnel work with tools or equipment, such as:			
a Hand or portable power tools?			10, 24
b. Machinery, machine tools, machine guarding, hazardous equipment?			18,24
c. Aerial lifts (powered platforms, man-lifts, etc.)?			23, 8
d. Scaffolding?			25, 8
e. Ladders?			15, 8
f. Rigging and hoisting (cranes, hoists, suspended loads)?	01		4
g. Personal fall protection (above water or >6 feet above work surface)?			8
h. Safety Barriers or Barricades?			26
i. Lift trucks, fork trucks?			9
Motorized transportation (cars, trucks, scooters)?			21
k Welding, brazing, or soldering equipment?			24, 27, 29
1. Instruments, testing devices (electrical, pneumatic, hydraulic), lasers?		<u>.</u>	6, 10, 12, 1
m PCs, rubber gloves on/near machinery or hazardous equipment?			18,24 (b)
n Compressed air, air receivers, compressed gas cylinders ?			4, 13
o. Pressure washing (high pressure, ultra-high pressure, water laser)?			n/a

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Job Hazard Assessment, Part B: Hazard Identification Checklist (Complete one checklist for each work or task, as applicable)								
Checklist Questions: Use the following questions to review work activity and identify Salety Hazarda associated with specific work/work phase.	YES	NO	* <u>SSM</u> Section(s)					
3. Does the job expose personnel to, or have them work in, environmental extremes, such as:								
B. Hot or humid environments (>95°F)?	ত		14					
b. Cold environments (temperatures/wind-chill < 20°P)?			n/a					
Other (describe):								
4. Does the work expose personnel to, or have them work within, enclosed areas or areas that are physically, physiologically, or psychology restrictive, such as:			3 (WC 4)					
a. Confined spaces (manholes, vaults, and other areas where oxygen deficiency or fume accumulation is possible)?			3, 27					
b. Materials utilized where additional ventilation may be required to maintain a safe atmosphere? (Consider recognized noxious or toxic agents, as well as materials not normally considered hazardous, such as paint strippers and cleaning agents, where fumes could accumulate.)			27					
c. Rooms or enclosed areas not normally occupied or poorly ventilated? (May become oxygen deficient or accumulate hazardous fumes).			27					
d. Multiple work crews in a limited work area? (Supervision must coordinate efforts to assure safety of all personnel performing work.)			3 ,27					
e. Manholes (are classified as confined spaces)?		n	3, 19, 26, 27					
f. Excavations, such as trenches, holes, and tunnels?	n	1 m	3, 7, 26, 27					
g. IDLH atmosphere (low oxygen levels, toxic gas)?	-H-	h Th	3					
Other (describe):			· ••••••••••••••••••••••••••••••••••••					
5. Will personnel require Personal Protective Equipment (PPE) for: (b)								
a. Eye and face protection? (safety glasses, face or welding shields, goggles) heat, chemicals, dust, intense light, electric flash, chips, grit)	ত		24					
b. Foot, metatarsal protection?			24					
c. Hand protection? (chemicals, cuts, abrasions, heat, cold, burns, electrical)			24					
d. Head protection? (hard hat, other)	তি		24					
c. Hearing protection ?			22, 24					
f. Body protection? (shin guards, coveralls, PFDs, electric current)			24					
g. Respiratory Protection? (fumes, dust, reactive chemicals, O2 deprivation)			(HP)					
Other (describe):								
5. Other issues (describe):								
		İ						
 (HP) Controlled by Health Physics, MP-19-SH-SAP05 "Respiratory Protection" prof (a) Controlled by common maintenance procedure C MP 701B "Safety Review of 0 (b) Radiological Protective Clothing (PCs) controlled by Health Physics. * Primary SSM section(s) for hazard topic shown in bold. 	•	rcial D	living"					
	MP-10	.cu.c	AP01-001					
	Rev 0		101-001					
	Page 3							
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NAME START OF RECORD SUBJECT