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Effective Date 7/21/94

Rev. 18



ANNUNCIATOR RESPONSE AR-303 FLORIDA POWER CORPORATION CRYSTAL RIVER UNIT 3

ESC ANNUNCIATOR RESPONSE

THIS PROCEDURE ADDRESSES SAFETY RELATED COMPONENTS

APPROVED BY: Interpretation Contact pres (SIGNATURE ON FILE) 7/21 DATE:

INTERPRETATION CONTACT: Supervisor, Nuclear Operations Administrative Shift

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1.0 PURPOSE

- 1.1 Establish a reference document for each Annunciator Window on the ESAB-A Lampbox.
- 1.2 Establish operator actions for valid Annunciator alarms on the ESAB-A Lampbox.
- 1.3 Establish a reference to other procedures which address operator actions for valid Annunciator alarms on the ESAB-A Lampbox.

2.0 REFERENCES

2.1 IMPLEMENTING REFERENCES

- 2.1.1 EOP, Emergency Operating Procedure
- 2.1.2 AP-330, Loss of Nuclear Services Water
- 2.1.3 AP-470, Loss of Instrument Air
- 2.1.4 AP-961, Earthquake
- 2.1.5 OP-700C, 120/240 Volt AC Distribution Panels
- 2.1.6 OP-301, Operation of the Reactor Coolant System
- 2.1.7 SP-317, RC System Water Inventory Balance

2.2 DEVELOPMENTAL REFERENCES

- 2.2.1 INPO 90-021, Good Practice OP-217, Alarm Response Procedures
- 2.2.2 Annunciator Window Engraving Drawing E-224-048

3.0 PERSONNEL INDOCTRINATION

3.1 The Annunciator System is powered from VBDP-5 Breaker 28.

4.0 INSTRUCTIONS

4.1 Respond to alarms on the ESAB-A Lampbox as indicated on Enclosure 1, Annunciator Response.

5.0 FOLLOW-UP ACTIONS

None

ENCLOSURE 1 (Page 1 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-01	C-01-01
	RC- HIGH I BISTABLI	1 PRESS E TRIP
	EVENT POIN	NT 0937
ORCS PRESSURE < 1500 PSIG		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • ES STATUS LIGHT RC-1 'BISTABLE TRIPPED' • ACTUATION CHANNEL CABINET #1 BISTABLE OU	M: INDICATES BLUE. TPUT STATE LIGHT 'BRI	GHT′.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • ES STATUS LIGHT RC-1 'BISTABLE TRIPPED' • ACTUATION CHANNEL CABINET #1 BISTABLE OU OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP.	M: INDICATES BLUE. TPUT STATE LIGHT 'BRI	GHT′.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • ES STATUS LIGHT RC-1 'BISTABLE TRIPPED' • ACTUATION CHANNEL CABINET #1 BISTABLE OU OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP. DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED I	M: INDICATES BLUE. TPUT STATE LIGHT 'BRI	GHT'. GIC.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • ES STATUS LIGHT RC-1 'BISTABLE TRIPPED' • ACTUATION CHANNEL CABINET #1 BISTABLE OU OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP. DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED I REFERENCES: DRAWING 208-028 SHEET ESA-24	M: INDICATES BLUE. TPUT STATE LIGHT 'BRI N A 2 OUT OF 3 HPI LO	GHT'. GIC.

0

ENCLOSURE 1 (Page 2 of 86)

	ESAB-A-01-02	C-01-02
	RC- LOW PF BISTABLE	4 RESS E TRIP
	EVENT POIN	NT 0940
INDICATED CONDITION:		
O RCS PRESSURE <500 PSIG		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTP	: NDICATES BLUE. PUT STATE LIGHT 'BRI	GHT′.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTF • OPERATOR ACTION FOR A VALID ALARM:	: NDICATES BLUE. PUT STATE LIGHT 'BRI	GHT′.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTF • PERATOR ACTION FOR A VALID ALARM: • REFER TO EOP	: NDICATES BLUE. PUT STATE LIGHT 'BRI	GHT′.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTF DPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP	: NDICATES BLUE. PUT STATE LIGHT 'BRI	GHTʻ.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTF • OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP	: NDICATES BLUE. PUT STATE LIGHT 'BRI	GHTʻ.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTP • OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP	: NDICATES BLUE. PUT STATE LIGHT 'BRI	GHTʻ.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTP OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP DISCUSSION:	: NDICATES BLUE. PUT STATE LIGHT 'BRI	GHTʻ.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IM • ACTUATION CHANNEL CABINET #1 BISTABLE OUTF OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED IN	A 2 OUT OF 3 LPI LO	GHT'. GIC.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • ES STATUS LIGHT RC-4 'BISTABLE TRIPPED' IN • ACTUATION CHANNEL CABINET #1 BISTABLE OUTF OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED IN REFERENCES: DRAWING 208-028 SHEET ESB-39	: PUT STATE LIGHT 'BRI A 2 OUT OF 3 LPI LO	GHT'. GIC.

ENCLOSURE 1 (Page 3 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-03 C-01-03
	SW BP A/B TRIP
	EVENT POINT 1831
INDICATED CONDITION: • SWP-2A MOTOR NOT ENERGIZED WITH CONTROL SW POSITION.	WITCH IN NORMAL AFTER START
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O GREEN LIGHT WITH A RED FLAG ON CONTROL ST/ O SWP-2B AUTO START. O SW BP A/B FLOW LOW ALARM. O CRDM COMPUTER HIGH TEMP ALARM(S).	: ATION.
OPERATOR ACTION FOR A VALID ALARM: • ENSURE SWP-2B STARTS. • INVESTIGATE CAUSE OF PUMP TRIP.	
DISCUSSION:	
REFERENCES: DRAWING 208-056 SHEET SW-04	*
CENCING FLEMENT, SUD 24 CONTROL SWITCH CONT	0/21 12/21 2714

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-03	C-01-03
	SW BP TRI	A/B P
	EVENT POIN	IT 1833
INDICATED CONDITION: • SWP-2B MOTOR NOT ENERGIZED WITH CONTROL ST POSITION.	WITCH IN NORMAL AFTER	START
○ GREEN LIGHT WITH A RED FLAG ON CONTROL ST	: ATION.	
 SWP-2A AUTO START. SW BP A/B FLOW LOW ALARM. CRDM HIGH TEMP COMPUTER ALARM(S). 		
 SWP-2A AUTO START. SW BP A/B FLOW LOW ALARM. CRDM HIGH TEMP COMPUTER ALARM(S). OPERATOR ACTION FOR A VALID ALARM: ENSURE SWP-2A STARTS. INVESTIGATE CAUSE OF PUMP TRIP 		
 SWP-2A AUTO START. SW BP A/B FLOW LOW ALARM. CRDM HIGH TEMP COMPUTER ALARM(S). OPERATOR ACTION FOR A VALID ALARM: ENSURE SWP-2A STARTS. INVESTIGATE CAUSE OF PUMP TRIP. 		
 SWP-2A AUTO START. SW BP A/B FLOW LOW ALARM. CRDM HIGH TEMP COMPUTER ALARM(S). OPERATOR ACTION FOR A VALID ALARM: ENSURE SWP-2A STARTS. INVESTIGATE CAUSE OF PUMP TRIP. DISCUSSION:		
 SWP-2A AUTO START. SW BP A/B FLOW LOW ALARM. CRDM HIGH TEMP COMPUTER ALARM(S). OPERATOR ACTION FOR A VALID ALARM: ENSURE SWP-2A STARTS. INVESTIGATE CAUSE OF PUMP TRIP. DISCUSSION:		

ENCLOSURE 1 (Page 5 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-04	C-01-04
	SW BP FLO LOI	A/B ₩ N
	EVENT POIN	NT 1830
O CRDM BOOSTER PUMP FLOW <140 GPM FOR >5	SEC AS SENSED BY SW-91	-FS.
REDUNDANT INDICATION WHICH WILL VERIFY ALA • SW BP A/B TRIP ALARM. • SW BP A/B AUTO START ALARM.	RM:	
REDUNDANT INDICATION WHICH WILL VERIFY ALA • SW BP A/B TRIP ALARM. • SW BP A/B AUTO START ALARM. OPERATOR ACTION FOR A VALID ALARM: • ENSURE STANDBY NUCLEAR SERVICES BOOSTER • CHECK CRDM FILTER ΔP, IF HIGH PLACE STAN • CHECK NUCLEAR SERVICES FLOWPATH.	RM: PUMP IS RUNNING. IDBY FILTER IN SERVICE.	
REDUNDANT INDICATION WHICH WILL VERIFY ALA • SW BP A/B TRIP ALARM. • SW BP A/B AUTO START ALARM. OPERATOR ACTION FOR A VALID ALARM: • ENSURE STANDBY NUCLEAR SERVICES BOOSTER • CHECK CRDM FILTER AP, IF HIGH PLACE STAN • CHECK NUCLEAR SERVICES FLOWPATH. DISCUSSION: ALTERNATE NUCLEAR SERVICE BOOSTER PUMP ST IF TWO PUMPS ARE RUNNING AND ONE PUMP WIL ONE PUMP SHOULD BE SECURED.	RM: PUMP IS RUNNING. DBY FILTER IN SERVICE.	2 SEC. LOW, THEN
REDUNDANT INDICATION WHICH WILL VERIFY ALA • SW BP A/B TRIP ALARM. • SW BP A/B AUTO START ALARM. OPERATOR ACTION FOR A VALID ALARM: • ENSURE STANDBY NUCLEAR SERVICES BOOSTER • CHECK CRDM FILTER ΔP, IF HIGH PLACE STAN • CHECK NUCLEAR SERVICES FLOWPATH. DISCUSSION: ALTERNATE NUCLEAR SERVICE BOOSTER PUMP ST IF TWO PUMPS ARE RUNNING AND ONE PUMP WIL ONE PUMP SHOULD BE SECURED. REFERENCES: DRAWING 208-056 SHEET SW-04*	RM: PUMP IS RUNNING. DBY FILTER IN SERVICE.	2 SEC. LOW, THEN

E	N	C	L	OSU	R	E	1		
P	a	g	e	6	0	f	8	6)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-06	C-01-06
	SW BP AUTO S	A/B START
	EVENT POI	NT 1832
 NDICATED CONDITION: SWP-2A MOTOR ENERGIZED WITH CONTROL SWITCH POSITION. 	H IN NORMAL AFTER ST	OP
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • RED LIGHT WITH A GREEN FLAG ON CONTROL ST • SW BP A/B LOW FLOW ALARM.	: ATION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • RED LIGHT WITH A GREEN FLAG ON CONTROL ST • SW BP A/B LOW FLOW ALARM. • OPERATOR ACTION FOR A VALID ALARM:	: ATION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • RED LIGHT WITH A GREEN FLAG ON CONTROL ST/ • SW BP A/B LOW FLOW ALARM. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF BOOSTER PUMP AUTO ST/ • INVESTIGATE CAUSE OF PUMP TRIP.	: ATION. ART.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • RED LIGHT WITH A GREEN FLAG ON CONTROL ST/ • SW BP A/B LOW FLOW ALARM. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF BOOSTER PUMP AUTO ST/ • INVESTIGATE CAUSE OF PUMP TRIP.	: ATION. ART.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • RED LIGHT WITH A GREEN FLAG ON CONTROL ST • SW BP A/B LOW FLOW ALARM. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF BOOSTER PUMP AUTO ST • INVESTIGATE CAUSE OF PUMP TRIP. DISCUSSION: WITH A DECREASING FLOW THE ALTERNATE NUCLEA START WHEN FLOW IS <140 GPM FOR >2 SEC.	: ATION. ART. R SERVICES BOOSTER F	PUMP WILL
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • RED LIGHT WITH A GREEN FLAG ON CONTROL STA • SW BP A/B LOW FLOW ALARM. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF BOOSTER PUMP AUTO STA • INVESTIGATE CAUSE OF PUMP TRIP. DISCUSSION: WITH A DECREASING FLOW THE ALTERNATE NUCLEA START WHEN FLOW IS <140 GPM FOR >2 SEC. REFERENCES: DRAWING 208-056 SHEET SW-04	: ATION. ART. R SERVICES BOOSTER F	PUMP WILL

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	(<u>P</u>	<u>NCLOSURE 1</u> age 7 of 86)
ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-06	C-01-06
	SW BP AUTO S	A/B TART
	EVENT POIN	IT 1834
INDICATED CONDITION: • SWP-2B MOTOR ENERGIZED WITH CONTROL SWITCH POSITION.	IN NORMAL AFTER STO)P
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • RED LIGHT WITH A GREEN FLAG ON CONTROL STAT • SW BP A/B LOW FLOW ALARM.	TION.	
OPERATOR ACTION FOR A VALID ALARM:		
 INVESTIGATE CAUSE OF BOOSTER PUMP AUTO STATE INVESTIGATE CAUSE OF PUMP TRIP. 	RT.	
DISCUSSION:		
WITH A DECREASING FLOW THE ALTERNATE NUCLEAR START WHEN FLOW IS <140 GPM FOR >2 SEC.	SERVICES BOOSTER P	JMP WILL
REFERENCES: DRAWING 208-056 SW-05		

SENSING ELEMENT: SWP-2B CONTROL SWITCH CONTACTS CS/SC, CS/O

ENCLOSURE 1 (Page 8 of 86)

	ESAB-A-01-08	C-01-08
	SW SURGE LEVE HIGH/	E TANK EL LOW
	EVENT POIN	NT 1835
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
 HIGH NITROGEN PRESSURE ALARM. RML-3 RADIATION ALARM. SWV-277 OPEN INDICATION. 		
 HIGH NITROGEN PRESSURE ALARM. RML-3 RADIATION ALARM. SWV-277 OPEN INDICATION. OPERATOR ACTION FOR A VALID ALARM:		
 HIGH NITROGEN PRESSURE ALARM. RML-3 RADIATION ALARM. SWV-277 OPEN INDICATION. OPERATOR ACTION FOR A VALID ALARM: INVESTIGATE CAUSE OF HIGH LEVEL ALARM. 		
 HIGH NITROGEN PRESSURE ALARM. RML-3 RADIATION ALARM. SWV-277 OPEN INDICATION. OPERATOR ACTION FOR A VALID ALARM: INVESTIGATE CAUSE OF HIGH LEVEL ALARM. DISCUSSION: AN INCREASING SW SURGE TANK LEVEL MAY INDICLETDOWN COOLERS OR RCP SEAL PACKAGE COOLERS	CATE LEAKAGE FROM ANY	OF THE
 HIGH NITROGEN PRESSURE ALARM. RML-3 RADIATION ALARM. SWV-277 OPEN INDICATION. OPERATOR ACTION FOR A VALID ALARM: OPERATOR ACTION FOR A VALID ALARM: INVESTIGATE CAUSE OF HIGH LEVEL ALARM. DISCUSSION: AN INCREASING SW SURGE TANK LEVEL MAY INDICLETDOWN COOLERS OR RCP SEAL PACKAGE COOLERS REFERENCES: DRAWING 208-056 SHEET SW-31	CATE LEAKAGE FROM ANY S.	OF THE

ENCLOSURE 1 (Page 9 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-08 C-01-0
	SW SURGE TANK LEVEL HIGH/LOW
	EVENT POINT 183
INDICATED CONDITION: • SW SURGE TANK LEVEL <8'6" AS SENSED BY S	W-137-LS.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • LOW NITROGEN PRESSURE ALARM. • SW SYSTEM PRESSURE LOW ALARM.	Μ:
OPERATOR ACTION FOR A VALID ALARM: O FILL SW SURGE TANK AS NECESSARY. O INVESTIGATE CAUSE OF LOW TANK LEVEL. O REFER TO AP-330. O IF a 4# RBIC actuation has occurred and <u>THEN</u> close the SW isolation values to th	is bypassed, e RCP's, SWV-79 THROUGH SWV-8
DISCUSSION: A DECREASING SW SURGE TANK LEVEL MAY INDIC	ATE POSSIBLE LEAKAGE FROM
SYSTEM RELIEF VALVES. IF RUNNING MORE THAN PRESSURE MAY BE HIGH CAUSING THIS LEAKAGE.	
SYSTEM RELIEF VALVES. IF RUNNING MORE THAN PRESSURE MAY BE HIGH CAUSING THIS LEAKAGE. REFERENCES: DRAWING 208-056 SHEET SW-31	

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-09	C-01-09
	SW SURGI PRES HIGH/	E TANK SS LOW
	EVENT POIN	NT 1837
○ S₩ SURGE TANK PRESSURE >95 PSIG AS SENSE	D BY SW-134-PS.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR O HIGH INDICATED TANK PRESSURE. O HIGH SW SURGE TANK LEVEL.	M:	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • HIGH INDICATED TANK PRESSURE. • HIGH SW SURGE TANK LEVEL. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF HIGH PRESSURE. • CHECK NITROGEN SUPPLY ISOLATION VALVE CL • CHECK TANK PRESSURE REGULATOR (SWV-281) • IF PRESSURE ALARM CAUSED BY HIGH LEVEL,	M: OSED. FOR PROPER OPERATION. RESTORE LEVEL TO NORM	AL BAND.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • HIGH INDICATED TANK PRESSURE. • HIGH SW SURGE TANK LEVEL. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF HIGH PRESSURE. • CHECK NITROGEN SUPPLY ISOLATION VALVE CL • CHECK TANK PRESSURE REGULATOR (SWV-281) • IF PRESSURE ALARM CAUSED BY HIGH LEVEL, DISCUSSION: IF NECESSARY TO REDUCE TANK PRESSURE A MAN AVAILABLE TO VENT THE EXCESS PRESSURE TO T	M: OSED. FOR PROPER OPERATION. RESTORE LEVEL TO NORM NUAL VENT VALVE (SWV-1 HE AB VENTILATION SYS	AL BAND. 98) IS TEM.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • HIGH INDICATED TANK PRESSURE. • HIGH SW SURGE TANK LEVEL. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF HIGH PRESSURE. • CHECK NITROGEN SUPPLY ISOLATION VALVE CL • CHECK TANK PRESSURE REGULATOR (SWV-281) • IF PRESSURE ALARM CAUSED BY HIGH LEVEL, DISCUSSION: IF NECESSARY TO REDUCE TANK PRESSURE A MAN AVAILABLE TO VENT THE EXCESS PRESSURE TO T REFERENCES: DRAWING 208-056 SHEET SW-31	M: OSED. FOR PROPER OPERATION. RESTORE LEVEL TO NORM WUAL VENT VALVE (SWV-1 HE AB VENTILATION SYS	AL BAND. 98) IS TEM.

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ESAB-A ANNUNCIATUR RESPUNSE	ESAB-A-01-09	C-01-09
	SW SURGE PRES HIGH/	E TANK SS LOW
	EVENT POIN	NT 1838
• SW SURGE TANK PRESSURE <75 PSIG AS SENSE	D BY SW-134-PS.	
 CONTRACT ON WHICH WILL VERIFT ALAR LOW INDICATED TANK PRESSURE. LOW SW SURGE TANK LEVEL. SW SYSTEM PRESS LOW. 	M:	
 COMPART INDICATION WHICH WILL VERIFY ALAR LOW INDICATED TANK PRESSURE. LOW SW SURGE TANK LEVEL. SW SYSTEM PRESS LOW. OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-330. CHECK FOR TANK GAS SPACE LEAKS. CHECK FOR TANK GAS SPACE LEAKS. CHECK TANK PRESSURE CONTROL BYPASS VALVE CHECK TANK PRESSURE CONTROL VALVE (SWV-2 IF PRESSURE ALARM CAUSED BY LOW LEVEL, R 	M: (SWV-198) CLOSED. 31) NOT LEAKING BY. ESTORE LEVEL TO NORMA	L BAND.
 CLOW INDICATED TANK PRESSURE. CLOW SW SURGE TANK LEVEL. SW SYSTEM PRESS LOW. DPERATOR ACTION FOR A VALID ALARM: REFER TO AP-330. CHECK FOR TANK GAS SPACE LEAKS. CHECK TANK PRESSURE CONTROL BYPASS VALVE CHECK TANK PRESSURE CONTROL VALVE (SWV-2 IF PRESSURE ALARM CAUSED BY LOW LEVEL, R DISCUSSION: IT IS POSSIBLE TO CHECK FOR SWV-281 LEAK B OBSERVING FOR TANK PRESSURE TO RECOVER.	M: (SWV-198) CLOSED. 31) NOT LEAKING BY. ESTORE LEVEL TO NORMA SY CLOSING VALVE SWV-2	L BAND. 82 AND
 OLOW INDICATED TANK PRESSURE. OLOW SW SURGE TANK LEVEL. SW SYSTEM PRESS LOW. OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-330. CHECK FOR TANK GAS SPACE LEAKS. CHECK FOR TANK GAS SPACE LEAKS. CHECK TANK PRESSURE CONTROL BYPASS VALVE CHECK TANK PRESSURE CONTROL VALVE (SWV-2 IF PRESSURE ALARM CAUSED BY LOW LEVEL, R DISCUSSION: IT IS POSSIBLE TO CHECK FOR SWV-281 LEAK B OBSERVING FOR TANK PRESSURE TO RECOVER. REFERENCES: DRAWING 208-056 SHEET SW-31	M: (SWV-198) CLOSED. 31) NOT LEAKING BY. ESTORE LEVEL TO NORMA BY CLOSING VALVE SWV-2	L BAND. 82 AND

ENCLOSURE 1 (Page 12 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-11	C-01-11
	RB FAN A CLG WTR LOW	A/B/C FLOW
	EVENT POIN	T 1843
NDICATED CONDITION: • SW OR CI FLOW FROM AIR HANDLING UNIT 1A	<400 GPM AS SENSED BY	SW-47-FS.
CEDUNDANT INDICATION WHICH WILL VERIFY ALAR O REACTOR BUILDING SW SYSTEM LEAK ALARM. O COMPUTER POINT S348. O SW OUTLET VALVE (SWV-41) CLOSED INDICATI	M : ON .	
OPERATOR ACTION FOR A VALID ALARM:		
 IF ADDITIONAL COOLING WATER FLOW IS REQU AND ENSURE THE FAN IS ALIGNED TO SW. IF SW LEAKAGE IS INDICATED, ISOLATE COOL 	JIRED, START SWP-1A OR ING WATER TO AHF-1A.	SWP-1B
DISCUSSION: THIS ALARM IS AN EXPECTED ALARM AFTER AIR	HANDLING UNIT SHUTDOWN	N. (TIME
DELAY OF ≈60 SECONDS CLOSES SWV-41.)		
DELAY OF ≈60 SECONDS CLOSES SWV-41.) REFERENCES: DRAWING 208-056 SHEET SW-31		

ENCLOSURE 1 (Page 13 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-11	C-01-11
INDICATED CONDITION: • SW OR CI FLOW FROM AIR HANDLING UNIT 1B	RB FAN CLG WTR LOV EVENT POIN	A/B/C FLOW V NT 1844 SW-51-FS.
REDUNDANT INDICATION WHICH WILL VERIFY ALAF • REACTOR BUILDING SW SYSTEM LEAK ALARM. • COMPUTER POINT S376. • SW OUTLET VALVE (SWV-43) CLOSED INDICATI	RM: ION.	
OPERATOR ACTION FOR A VALID ALARM:		
A LE ADDITIONAL COOLING WATER FLOW IS DEDI	JIRED, START SWP-1A OR	
AND ENSURE THE FAN IS ALIGNED TO SW. O IF SW LEAKAGE IS INDICATED, ISOLATE COOL	ING WATER TO AHF-1B.	SWP-1B
DISCUSSION:	ING WATER TO AHF-1B.	SWP-1B
 DIF ADDITIONAL COOLING WATER FLOW IS RECO AND ENSURE THE FAN IS ALIGNED TO SW. O IF SW LEAKAGE IS INDICATED, ISOLATE COOL DISCUSSION: THIS ALARM IS AN EXPECTED ALARM AFTER AIR DELAY OF ≈60 SECONDS CLOSES SWV-43.) 	LING WATER TO AHF-1B.	SWP-1B N. (TIME
 O IF ADDITIONAL COOLING WATER FLOW IS RECO AND ENSURE THE FAN IS ALIGNED TO SW. ○ IF SW LEAKAGE IS INDICATED, ISOLATE COOL DISCUSSION: THIS ALARM IS AN EXPECTED ALARM AFTER AIR DELAY OF ≈60 SECONDS CLOSES SWV-43.) REFERENCES: DRAWING 208-056 SHEET SW-31 	ING WATER TO AHF-1B.	SWP-1B N. (TIME

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-11	C-01-11
	RB FAN CLG WTR LOV	A/B/C FLOW
	EVENT POIN	NT 1845
INDICATED CONDITION:	<400 GPM AS SENSED BY	SW-55-FS.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:	
 REACTOR BUILDING SW SYSTEM LEAK ALARM. COMPUTER POINT \$387. SW OUTLET VALVE (SWV-45) CLOSED INDICATI 	ON.	
OPERATOR ACTION FOR A VALID ALARM:		anan 19 an 11 Martin (Martin Constant)
 IF ADDITIONAL COOLING WATER FLOW IS REQU AND ENSURE THE FAN IS ALIGNED TO SW. IF SW LEAKAGE IS INDICATED, ISOLATE COOL 	IRED, START SWP-1A OR ING WATER TO AHF-1B.	SWP-1B
DISCUSSION: THIS ALARM IS AN EXPECTED ALARM AFTER AIR	HANDLING UNIT SHUTDOW	N. (TIME
DISCUSSION: THIS ALARM IS AN EXPECTED ALARM AFTER AIR DELAY OF ≈60 SECONDS CLOSES SWV-45.)	HANDLING UNIT SHUTDOW	N. (TIME
DISCUSSION: THIS ALARM IS AN EXPECTED ALARM AFTER AIR DELAY OF ≈60 SECONDS CLOSES SWV-45.) REFERENCES: DRAWING 208-056 SHEET SW-31	HANDLING UNIT SHUTDOW	N. (TIME

ENCLOSURE 1 (Page 15 of 86)

C-01-12 ESAB-A-01-12 ESAB-A ANNUNCIATOR RESPONSE REACTOR BLDG SW SYSTEM LEAK **EVENT POINT 1840** INDICATED CONDITION: O DIFF FLOW TO AIR HANDLING UNIT 1A >90 GPM AS SENSED BY SW-46-FS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O RB FAN A/B/C CLG WTR FLOW LCW ALARM. O DECREASING LEVEL IN SW SURGE TANK. O HIGH TEMP ALARM ON AFFECTED COMPONENT. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-330. O ISOLATE THE AFFECTED COMPONENT, AND PLACE BACKUP IN SERVICE IF REQUIRED. O FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID IF DIFFERENTIAL FLOW IS >90 GPM. REFERENCES: DRAWING 208-056 SHEET SW-31 SENSING ELEMENT: SW-46-FS

ENCLOSURE 1 (Page 16 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-12	C-01-12
	REACTOR SW SYS	BLDG STEM K
	EVENT POIN	NT 1841
NDICATED CONDITION: • DIFF FLOW TO AIR HANDLING UNIT 1B >90 GP	M AS SENSED BY SW-50-	FS.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR O RB FAN A/B/C CLG WTR FLOW LOW ALARM O DECREASING LEVEL IN SW SURGE TANK. O HIGH TEMP ALARM ON AFFECTED COMPONENT.	.M :	
OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-330. • ISOLATE THE AFFECTED COMPONENT, AND PLAC • FILL SW SURGE TANK AS NECESSARY.	E BACKUP IN SERVICE I	F REQUIRED.
DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID	IF DIFFERENTIAL FLOW	IS >90 GPM.
REFERENCES: DRAWING 208-056 SHEET SW-31		
	and a second	And a second secon

ENCLOSURE 1 (Page 17 of 86)

ESAB-A ANNUNCIATOR RES	SE ESAB-A-01-12 C-01-12
	REACTOR BLDG SW SYSTEM LEAK
	EVENT POINT 1842
INDICATED CONDITION: • DIFF FLOW TO AIR HANDLING UNI	C >90 GPM AS SENSED BY SW-54-FS.
REDUNDANT INDICATION WHICH WILL • RB FAN A/B/C CLG WTR FLOW LOW • DECREASING LEVEL IN SW SURGE • HIGH TEMP ALARM ON AFFECTED C	LIFY ALARM: .ARM. .K. PONENT.
OPERATOR ACTION FOR A VALID ALAR O REFER TO AP-330. O ISOLATE THE AFFECTED COMPONEN O FILL SW SURGE TANK AS NECESSA	AND PLACE BACKUP IN SERVICE IF REQUIRE
DISCUSSION: THE LOCAL BARTON GAUGE WILL BE	.34 PSID IF DIFFERENTIAL FLOW IS >90 GP
REFERENCES: DRAWING 208-056 SHE	SW-31

ENCLOSURE 1 (Page 18 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-12	C-01-12
	REACTOR SW SYS LEA	BLDG STEM K
	EVENT POIN	IT 1846
INDICATED CONDITION: • DIFF FLOW TO LD COOLER A AND C >50 GPM AS	S SENSED BY SW-42-FS.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O DECREASING LEVEL IN SW SURGE TANK. O HIGH TEMP ALARM ON AFFECTED COMPONENT.	М:	
OPERATOR ACTION FOR A VALID ALARM:		
 REFER TO AP-330. ISOLATE THE AFFECTED COMPONENT, AND PLACE FILL SW SURGE TANK AS NECESSARY. 	* E BACKUP IN SERVICE IN	F REQUIRED.
DISCUSSION:		

THE LOCAL BARTON GAUGE WILL BE >2.34 PSID IF DIFFERENTIAL FLOW IS >50 GPM.

REFERENCES: DRAWING 208-056 SHEET SW-18

SENSING ELEMENT: SW-42-FS

ENCLOSURE 1 (Page 19 of 86)

ESA8-A-01-12 0-01-12 ESAB-A ANNUNCIATOR RESPONSE REACTOR BLDG SW SYSTEM LEAK **EVENT POINT 1847** INDICATED CONDITION: ○ DIFF FLOW TO LD COOLER B >50 GPM AS SENSED BY SW-43-FS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DECREASING LEVEL IN SW SURGE TANK. O HIGH TEMP ALARM ON AFFECTED COMPONENT. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-330. O ISOLATE THE AFFECTED COMPONENT, AND PLACE BACKUP IN SERVICE IF REQUIRED. O FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID IF DIFFERENTIAL FLOW IS >90 GPM. REFERENCES: DRAWING 208-056 SHEET SW-18 SENSING ELEMENT: SW-43-FS

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ENCLOSURE 1 (Page 20 of 86)

C-01-12 ESAB-A-01-12 ESAB-A ANNUNCIATOR RESPONSE REACTOR BLDG SW SYSTEM LEAK **EVENT POINT 1848** INDICATED CONDITION: O DIFF FLOW TO CRDM'S >10 GPM AS SENSED BY SW-90-FS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DECREASING LEVEL IN SW SURGE TANK. INCREASING TEMPS ON CRDM'S. O COMPUTER GROUP 15 OR POINTS X-211 TO X-279. OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-330. O FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID IF DIFFERENTIAL FLOW IS >10 GPM. REFERENCES: DRAWING 208-056 SHEET SW-18 SENSING ELEMENT: SW-90-FS

ENCLOSURE 1 (Page 21 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-12 C-01-12
	REACTOR BLDG SW SYSTEM LEAK
	EVENT POINT 1849
O DIFF FLOW TO RCP-1A >20 GPM AS SENSED BY	SW-107-FS.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR O DECREASING LEVEL IN SW SURGE TANK. O INCREASING TEMPS ON RCP A. O COMPUTER GROUP 78.	М:
OPERATOR ACTION FOR A VALID ALARM:	
○ REFER TO AP-330. ○ FILL SW SURGE TANK AS NECESSARY.	
• REFER TO AP-330. • FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID	IF DIFFERENTIAL FLOW IS >20 GPM
 REFER TO AP-330. FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID REFERENCES: DRAWING 208-056 SHEET SW-18 	IF DIFFERENTIAL FLOW IS >20 GPM

ENCLOSURE 1 (Page 22 of 86) ESAB-A-01-12 C-01-12 ESAB-A ANNUNCIATOR RESPONSE REACTOR BLDG SW SYSTEM LEAK **EVENT POINT 1850** INDICATED CONDITION: O DIFF FLOW TO RCP-1B >20 GPM AS SENSED BY SW-113-FS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: DECREASING LEVEL IN SW SURGE TANK. O INCREASING TEMPS ON RCP B. O COMPUTER GROUP 79. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-330. O FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID IF DIFFERENTIAL FLOW IS >20 GPM. REFERENCES: DRAWING 208-056 SHEET SW-18 SENSING ELEMENT: SW-113-FS

ENCLOSURE 1 (Page 23 of 86) C-01-12 ESAB-A-01-12 ESAB-A ANNUNCIATOR RESPONSE REACTOR BLDG SW SYSTEM LEAK **EVENT POINT 1851** INDICATED CONDITION: O DIFF FLOW TO RCP-1C >20 GPM AS SENSED BY SW-95-FS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DECREASING LEVEL IN SW SURGE TANK. O INCREASING TEMPS ON RCP C. O COMPUTER GROUP 80. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-330. O FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID IF DIFFERENTIAL FLOW IS >20 GPM. REFERENCES: DRAWING 208-056 SHEET SW-18 SENSING ELEMENT: SW-95-FS

ENCLOSURE 1 (Page 24 of 86) ESAB-A ANNUNCIATOR RESPONSE C-01-12 ESAB-A-01-12 REACTOR BLDG SW SYSTEM LEAK **EVENT POINT 1852** INDICATED CONDITION: O DIFF FLOW TO RCP-1D >20 GPM AS SENSED BY SW-101-FS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DECREASING LEVEL IN SW SURGE TANK. O INCREASING TEMPS ON RCP D. O COMPUTER GROUP 81. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-330. O FILL SW SURGE TANK AS NECESSARY. DISCUSSION: THE LOCAL BARTON GAUGE WILL BE >2.34 PSID IF DIFFERENTIAL FLOW IS >20 GPM. REFERENCES: DRAWING 208-056 SHEET SW-18

SENSING ELEMENT: SW-101-FS

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-01-14	C-01-	
	ES C FAN FAILU	ES CAB FAN FAILURE	
	EVENT POIN	IT 123	
• LOW CABINET AIR FLOW AS SENSED BY IN REDUNDANT INDICATION WHICH WILL VERIFY • 'FAN RUNNING' LIGHT EXTINGUISHED	DIVIDUAL CABINET FAN FLOW	SWITCH.	
OPERATOR ACTION FOR A VALID ALARM: • VERIFY COOLING FAN IN OPERATION.			
DISCUSSION: 18C SHOP PERIODICALLY REPLACES THE DOO	R FILTERS PER SCHEDULED P	M'S. IF	
DISCUSSION: I&C SHOP PERIODICALLY REPLACES THE DOO ALARM BECOMES A NUISANCE BECAUSE OF DI TO REPLACE THE FILTERS. SOMETIMES A LI REPLACEMENT.	R FILTERS PER SCHEDULED P RTY FILTERS, GENERATE A W GHT VACUUMING WILL HELP U	M'S. ORK R NTIL	

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ENCLOSURE 1 . . (Page 26 of 86) C-02-01 ESAB-A-02-01 ESAB-A ANNUNCIATOR RESPONSE RC-2 **HIGH PRESS** BISTABLE TRIP **EVENT POINT 0938** INDICATED CONDITION: o RCS PRESSURE <1500 PSIG</p> REDUNDANT INDICATION WHICH WILL VERIFY ALARM: ○ ES STATUS LIGHT RC-2 'BISTABLE TRIPPED' INDICATES BLUE. O ACTUATION CHANNEL CABINET #2 BISTABLE OUTPUT STATE LIGHT 'BRIGHT'. OPERATOR ACTION FOR A VALID ALARM: O REFER TO EOP DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED IN A 2 OUT OF 3 HPI LOGIC. REFERENCES: DRAWING 208-028 SHEET ESA-24 SENSING ELEMENT: BT-2 ES ACTUATION RELAY

ENCLOSURE 1 (Page 27 of 86) C-02-02 ESAB-A-02-02 ESAB-A ANNUNCIATOR RESPONSE RC-5 LOW PRESS BISTABLE TRIP **EVENT POINT 0925** INDICATED CONDITION: O RCS PRESSURE <500 PSIG</p> REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O ES STATUS LIGHT RC-5 'BISTABLE TRIPPED' INDICATES BLUE. O ACTUATION CHANNEL CABINET #2 BISTABLE OUTPUT STATE LIGHT 'BRIGHT'. OPERATOR ACTION FOR A VALID ALARM: O REFER TO EOP DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED IN A 2 OUT OF 3 LPI LOGIC. REFERENCES: DRAWING 208-028 SHEET ESB-39 SENSING ELEMENT: BT-8 ES ACTUATION RELAY

ENCLOSURE 1 (Page 28 of 86) C-02-03 ESAB-A-02-03 ESAB-A ANNUNCIATOR RESPONSE SW PUMP C TRIP **EVENT POINT 1821** INDICATED CONDITION: O SWP-1C BREAKER OPEN WITH CONTROL SWITCH IN NORMAL AFTER START POSITION. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O GREEN LIGHT WITH A RED FLAG ON CONTROL STATION. O SWP-18 AUTO START ALARM. O SW SYSTEM PRESS LOW ALARM. OPERATOR ACTION FOR A VALID ALARM: O ENSURE EMERGENCY NUCLEAR SERVICES PUMP SWP-1B OR SWP-1A AUTO START. O INVESTIGATE CAUSE OF PUMP TRIP. DISCUSSION: SWP-1B STARTS 2 SEC AFTER PRESS DECREASES TO <110 PSIG. IF SWP-1B FAILS TO START, OR IS TAGGED OUT, SWP-1A WILL START 10 SEC AFTER PRESS DECREASES TO <110 PSIG. NO AUTO START ALARM IS CURRENTLY INSTALLED FOR SWP-1A. REFERENCES: DRAWING 208-056 SHEET SW-01 SENSING ELEMENT: SWP-1C CONTROL SWITCH CONTACTS CS/SC, CS/O

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-04 C-02-0
	SWP C MOTOR OVERLOAD
	EVENT POINT 182
O SWP-IC MOTOR AMPS >115% RATED LOAD.	
 SWP-IC MOTOR AMPS >115% RATED LOAD. EDUNDANT INDICATION WHICH WILL VERIFY HIGH MOTOR AMPS. SWP-IC TRIP. GREEN LIGHT ON WITH A RED FLAG ON S SW SYSTEM PRESS LOW SW-2-PI. 	ALARM:
 SWP-IC MOTOR AMPS >115% RATED LOAD. REDUNDANT INDICATION WHICH WILL VERIFY HIGH MOTOR AMPS. SWP-1C TRIP. GREEN LIGHT ON WITH A RED FLAG ON S SW SYSTEM PRESS LOW SW-2-PI. OPERATOR ACTION FOR A VALID ALARM: START SWP-1A OR SWP-1B, SECURE SWP- 	ALARM: SWP-1C CONTROL STATION. -1C, INVESTIGATE CAUSE OF OVERLOAD.
 SWP-IC MOTOR AMPS >115% RATED LOAD. EDUNDANT INDICATION WHICH WILL VERIFY HIGH MOTOR AMPS. SWP-1C TRIP. GREEN LIGHT ON WITH A RED FLAG ON S SW SYSTEM PRESS LOW SW-2-PI. OPERATOR ACTION FOR A VALID ALARM: START SWP-1A OR SWP-1B, SECURE SWP- DISCUSSION: THIS ALARM INDICATES THAT EITHER THE OVERCURRENT PROTECTIVE DEVICES HAVE A PROTECTIVE RELAY ACTUATION WILL TRIP IT IS POSSIBLE TO HAVE THIS ALARM PRI	ALARM: SWP-1C CONTROL STATION. -1C, INVESTIGATE CAUSE OF OVERLOAD. TIMED OVERCURRENT OR INSTANTANEOUS ACTUATED. INSTANTANEOUS OVERCURRENT THE BREAKER. IOR TO THE BREAKER TRIP.
 SWP-IC MOTOR AMPS >115% RATED LOAD. REDUNDANT INDICATION WHICH WILL VERIFY HIGH MOTOR AMPS. SWP-1C TRIP. GREEN LIGHT ON WITH A RED FLAG ON S SW SYSTEM PRESS LOW SW-2-PI. OPERATOR ACTION FOR A VALID ALARM: START SWP-1A OR SWP-1B, SECURE SWP- DISCUSSION: THIS ALARM INDICATES THAT EITHER THE OVERCURRENT PROTECTIVE DEVICES HAVE A PROTECTIVE RELAY ACTUATION WILL TRIP IT IS POSSIBLE TO HAVE THIS ALARM PRI	Y ALARM: SWP-1C CONTROL STATION. -1C, INVESTIGATE CAUSE OF OVER TIMED OVERCURRENT OR INSTANTA ACTUATED. INSTANTANEOUS OVERCU THE BREAKER. IOR TO THE BREAKER TRIP.

ENCLOSURE 1 (Page 30 of 86) ESAB-A-02-05 C-02-05 ESAB-A ANNUNCIATOR RESPONSE SW SYSTEM PRESS LOW **EVENT POINT 1823** INDICATED CONDITION: O SW SYSTEM HEADER PRESSURE <110 PSIG AS SENSED BY SW-151-PS.</p> REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O SWP TRIP ALARM ON RUNNING SW PUMP. O HIGH MOTOR AMPS ON RUNNING SW PUMP. O SW SURGE TANK PRESS LOW. OPERATOR ACTION FOR A VALID ALARM: O ENSURE SWP-1B OR SWP-1A HAS STARTED. O MONITOR SW SURGE TANK LEVEL FOR ADEQUATE INVENTORY. O CHECK SW SYSTEM FOR LEAKS. O CHECK FOR PROPER VALVE ALIGNMENT FOR RUNNING SW PUMP. DISCUSSION: REFERENCES: DRAWING 208-056 SHEET SW-03 SENSING ELEMENT: SW-151-PS

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-06	C-02-0
	SW SYST TEMP HIGH	TEM
	EVENT POIN	T 183
○ SW PUMP SUCTION TEMP >105°F AS SENSED BY REDUNDANT INDICATION WHICH WILL VERIFY ALAR	SW-5-TS.	
 SCREEN WASH TROUBLE. RW PUMP TRIP, OR ABNORMAL CURRENT. SW PUMP TRIP, OR ABNORMAL CURRENT 	un .	
 SCREEN WASH TROUBLE. RW PUMP TRIP, OR ABNORMAL CURRENT. SW PUMP TRIP, OR ABNORMAL CURRENT OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-330. PLACE ALL SW HEAT EXCHANGERS IN SERVICE CHECK INTAKE SCREENS AND RWP'S TO ENSURE EXCHANGERS. MINIMIZE HEAT LOADS ON SW SYSTEM. CHECK SW HEAT EXCHANGERS DIFFERENTIAL TE FOULING. CHECK FOR PROPER VALVE ALIGNMENT FOR RUN EXCHANGERS. 	IF REQUIRED. E RAW WATER FLOW TO HEAT EMPERATURES FOR INDICAT WNING SW PUMP AND SW HEA	T IONS OF AT
 SCREEN WASH TROUBLE. RW PUMP TRIP, OR ABNORMAL CURRENT. SW PUMP TRIP, OR ABNORMAL CURRENT OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-330. PLACE ALL SW HEAT EXCHANGERS IN SERVICE CHECK INTAKE SCREENS AND RWP'S TO ENSURE EXCHANGERS. MINIMIZE HEAT LOADS ON SW SYSTEM. CHECK SW HEAT EXCHANGERS DIFFERENTIAL TE FOULING. CHECK FOR PROPER VALVE ALIGNMENT FOR RUN EXCHANGERS. DISCUSSION:	IF REQUIRED. E RAW WATER FLOW TO HEAT EMPERATURES FOR INDICAT INING SW PUMP AND SW HEA	T IONS OF AT

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ENCLOSURE 1 (Page 32 of 86)

C-02-08 ESAB-A-02-08 ESAB-A ANNUNCIATOR RESPONSE NA OH TANK LEVEL HIGH/LOW **EVENT POINT 0051** INDICATED CONDITION: O SODIUM HYDROXIDE TANK LEVEL >34.5 FT AS SENSED BY BS-3-LS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O TANK LEVEL INDICATION READING HIGH. OPERATOR ACTION FOR A VALID ALARM: O INVESTIGATE CAUSE OF HIGH LEVEL. DISCUSSION: BST-1 HAS BEEN ISOLATED AND REACTOR BUILDING pH IS CONTROLLED DURING REACTOR BUILDING SPRAY ACTUATIONS THROUGH THE USE OF TRISODIUM PHOSPHATE DISPENSED IN BASKETS LOCATED IN THE REACTOR BUILDING. MAR 88-5-1-2 WILL REMOVE THIS INSTRUMENTATION AT A LATER TIME. CONSIDERATION SHOULD BE GIVEN TO CONTROLLING A HIGH LEVEL CONDITION, SO AS NOT TO CREATE ANY CONDITION THAT MAY INADVERTENTLY SPILL SODIUM HYDROXIDE. REFERENCES: DRAWING 208-009 SHEET BS-11

SENSING ELEMENT: BS-3-LS
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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-08	C-02-08
	NA OH LEVE HIGH/	TANK EL LOW
	EVENT POIN	IT 0052
INDICATED CONDITION: • SODIUM HYDROXIDE TANK LEVEL <33.3 FT AS	SENSED BY BS-3-LS	
<pre>REDUNDAN? INDICATION WHICH WILL VERIFY ALAR • TANK LEVEL INDICATION READING LOW.</pre>	M :	
OPERATOR ACTION FOR A VALID ALARM:		
O INVESTIGATE CAUSE OF LOW LEVEL.		
DISCUSSION: BST-1 HAS BEEN ISOLATED AND REACTOR BUILDIN REACTOR BUILDING SPRAY ACTUATIONS THROUGH T DISPENSED IN BASKETS LOCATED IN THE REACTOR MAR 88-5-1-2 WILL REMOVE THIS INSTRUMENTATION	G pH IS CONTROLLED DU HE USE OF TRISODIUM PH BUILDING. ON AT A LATER TIME.	RING HOSPHATE

REFERENCES: DRAWING 208-009 SHEET BS-11

SENSING ELEMENT: BS-3-LS

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-09	C-02-09
	NA OH TEM HIGH/	TANK IP LOW
	EVENT POIL	NT 0055
INDICATED CONDITION: • SODIUM HYDROXIDE TANK TEMPERATURE >110°F	AS SENSED BY BS-7-TS	1.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	:M: I.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • TANK TEMPERATURE INDICATION READING HIGH OPERATOR ACTION FOR A VALID ALARM: • CHECK HEAT TRACING FOR PROPER OPERATION.	:M : I .	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • TANK TEMPERATURE INDICATION READING HIGH OPERATOR ACTION FOR A VALID ALARM: • CHECK HEAT TRACING FOR PROPER OPERATION.	:M : 1.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • TANK TEMPERATURE INDICATION READING HIGH OPERATOR ACTION FOR A VALID ALARM: • CHECK HEAT TRACING FOR PROPER OPERATION. DISCUSSION:	IM :	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • TANK TEMPERATURE INDICATION READING HIGH OPERATOR ACTION FOR A VALID ALARM: • CHECK HEAT TRACING FOR PROPER OPERATION. DISCUSSION: REFERENCES: DRAWING 208-009 SHEET BS-11	IM :	

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-09	C-02-0
	NA OH TEM HIGH/	TANK P LOW
	EVENT POIN	NT 005
 SODIUM HYDROXIDE TANK TEMPERATURE <50°F REDUNDANT INDICATION WHICH WILL VERIFY ALAF 	AS SENSED BY BS-7-TS1.	
 SODIUM HYDROXIDE TANK TEMPERATURE <50°F REDUNDANT INDICATION WHICH WILL VERIFY ALAF TANK TEMPERATURE INDICATION READING LOW. OPERATOR ACTION FOR A VALID ALARM: 	AS SENSED BY BS-7-TS1.	
 SODIUM HYDROXIDE TANK TEMPERATURE <50°F REDUNDANT INDICATION WHICH WILL VERIFY ALAF TANK TEMPERATURE INDICATION READING LOW. OPERATOR ACTION FOR A VALID ALARM: CHECK HEAT TRACING FOR PROPER OPERATION. 	AS SENSED BY BS-7-TS1.	
• SODIUM HYDROXIDE TANK TEMPERATURE <50°F REDUNDANT INDICATION WHICH WILL VERIFY ALAF • TANK TEMPERATURE INDICATION READING LOW. OPERATOR ACTION FOR A VALID ALARM: • CHECK HEAT TRACING FOR PROPER OPERATION. DISCUSSION:	AS SENSED BY BS-7-TS1.	

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-11	C-02-11
	REACTOR FLOOD L HIG	BLDG LEVEL H
	EVENT POIN	NT 1510
KELUNUANI INDILATUN WELLEN WILL VERTEI ALAN	(M:	
 HIGH RB WATER LEVEL AS INDICATED ON WD-3 HIGH SUMP WATER LEVEL ON WD-222-LI. HIGH SUMP WATER LEVEL ON BS-65-PR. OPERATOR ACTION FOR A VALID ALARM: REFER TO EOP. 	MM: 303-LI AND WD-304-LI.	
 O HIGH RB WATER LEVEL AS INDICATED ON WD-3 O HIGH SUMP WATER LEVEL ON WD-222-LI. O HIGH SUMP WATER LEVEL ON BS-65-PR. OPERATOR ACTION FOR A VALID ALARM: O REFER TO EOP. DISCUSSION: LEAKAGE INTO SUMP MAY BE FROM ONE OR MORE OF SYSTEM, SECONDARY SYSTEM, RC PUMP OIL, DEMILINES CONDENSING HUMID AIR, REFUELING CANAL 	OF THE FOLLOWING: REACTIN WATER, SW LEAKS, COU	TOR COOLANT DLING WATER
 HIGH RB WATER LEVEL AS INDICATED ON WD-3 HIGH SUMP WATER LEVEL ON WD-222-LI. HIGH SUMP WATER LEVEL ON BS-65-PR. OPERATOR ACTION FOR A VALID ALARM: REFER TO EOP. DISCUSSION: LEAKAGE INTO SUMP MAY BE FROM ONE OR MORE OF SYSTEM, SECONDARY SYSTEM, RC PUMP OIL, DEMILINES CONDENSING HUMID AIR, REFUELING CANAL REFER TO SP-317 AND OP-301 TO DETERMINE IF RB SUMP.	CM: 303-LI AND WD-304-LI. DF THE FOLLOWING: REAC IN WATER, SW LEAKS, COU DRAINS. RCS WATER IS BEING LO:	TOR COOLANT DLING WATER ST TO THE
 REDUNDANT INDICATION WHICH WILL VERIFY ALAF HIGH RB WATER LEVEL AS INDICATED ON WD-3 HIGH SUMP WATER LEVEL ON WD-222-LI. HIGH SUMP WATER LEVEL ON BS-65-PR. OPERATOR ACTION FOR A VALID ALARM: REFER TO EOP. DISCUSSION: LEAKAGE INTO SUMP MAY BE FROM ONE OR MORE OF SYSTEM, SECONDARY SYSTEM, RC PUMP OIL, DEMILINES CONDENSING HUMID AIR, REFUELING CANAL REFER TO SP-317 AND OP-301 TO DETERMINE IF RB SUMP. ENSURE ANY RECENT CHANGES TO SYSTEM LINEUPS LEVEL CONDITION ARE INVESTIGATED. 	CM: 303-LI AND WD-304-LI. DF THE FOLLOWING: REAC IN WATER, SW LEAKS, COU DRAINS. RCS WATER IS BEING LOS S THAT MAY HAVE CAUSED	TOR COOLANT DLING WATER ST TO THE THIS HIGH

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C-02-12 ESAB-A-02-12 ESAB-A ANNUNCIATOR RESPONSE REACTOR BLDG SUMP LEVEL HIGH **EVENT POINT 1509** INDICATED CONDITION: O REACTOR BUILDING SUMP LEVEL >4' ABOVE SUMP BOTTOM (>88'6" elevation). REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O HIGH SUMP WATER LEVEL ON WD-222-LI. O HIGH SUMP WATER LEVEL ON BS-65-PR. OPERATOR ACTION FOR A VALID ALARM: • CHECK FOR INDICATIONS OF RCS LEAKAGE. O NOTIFY PRIMARY PLANT OPERATOR TO INVESTIGATE. ○ REFER TO EOP. DISCUSSION: LEAKAGE INTO SUMP MAY BE FROM ONE OR MORE OF THE FOLLOWING: REACTOR COOLANT SYSTEM, SECONDARY SYSTEM, RC PUMP OIL, DEMIN WATER, SW LEAKS, COOLING WATER LINES CONDENSING HUMID AIR, REFUELING CANAL DRAINS. REFER TO SP-317 AND OP-301 TO DETERMINE IF RCS WATER IS BEING LOST TO THE RB SUMP. ENSURE ANY REC TT CHANGES TO SYSTEM LINEUPS THAT MAY HAVE CAUSED THIS HIGH LEVEL CONDITION ARE INVESTIGATED. REFERENCES: DRAWING 208-060 SHEET WD-137 SENSING ELEMENT: WD-301-LY, WD-302-LY LEVEL TRANSMITTERS

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-14
	SW ISO AII FAIL	VALVE R URE
	EVENT POI	NT 0530
<pre>O SUPPLY AIR PRESSURE TO CIV-34 <80 PSIG #</pre>	AS SENSED BY CI-411-PS	
REDUNDANT INDICATION WHICH WILL VERIFY ALA	RM:	
REDUNDANT INDICATION WHICH WILL VERIFY ALAN • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-34 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CI	RM: SITION. V-34.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAN • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-34 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CI	RM: SITION. V-34.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAN • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-34 VALVE POSITION INDICATING MID POSE OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED	RM: SITION. V-34. VALVES AND THEIR FAILE	D POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALAM • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-34 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CI DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED REFERENCES: DRAWING 208-077 SHEET CI-20	RM: SITION. V-34. VALVES AND THEIR FAILE	D POSITIO

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ENCLOSURE 1 (Page 40 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02	-14	C-02-14
	SW	ISO V AIR FAILUM	ALVE
	EVENT I	POIN	T 0531
INDICATED CONDITION: • SUPPLY AIR PRESSURE TO CIV-35 <80 PSIG AS	S SENSED BY CI-41	12-PS.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-35 VALVE POSITION INDICATING MID POS	M: ITION.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-35 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV	M: ITION. -35.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-35 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV	M: ITION. -35.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-35 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V.	M: ITION. -35. ALVES AND THEIR F	FAILED	POSITION
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-35 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VA REFERENCES: DRAWING 208-077 SHEET CI-21	M: ITION. -35. ALVES AND THEIR F	FAILED	POSITION

INDICATED CONDITION: Supply air pressure to civ-40 <80 psig as sensed by ci-413-ps. INDICATED CONDITION: Supply air pressure to civ-40 <80 psig as sensed by ci-413-ps. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: Supply air pressure indicating LOW. OPERATOR ACTION FOR A VALID ALARM: Supply air pressure indicating MiD Position. OPERATOR ACTION FOR A VALID ALARM: Supply air pressure of LOW pressure to civ-40. DISCUSSION: ENCLOSURE L OF ADD LISTS AIR OPERATED VALVES AND THEIR FALLED POSITION	ESAB-A ANNUNCIATUK RESPONSE	ESAB-A-02-14 C-	-02-1
EVENT POINT 053 INDICATED CONDITION: • SUPPLY AIR PRESSURE TO CIV-40 <80 PSIG AS SENSED BY CI-413-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-40 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV-40. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS ATE OPERATED VALVES AND THERE FAILED POSITI		SW ISO VAL AIR FAILURE	VE
INDICATED CONDITION: • SUPPLY AIR PRESSURE TO CIV-40 <80 PSIG AS SENSED BY CI-413-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-40 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV-40. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITI		EVENT POINT	053
OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV-40. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITI	 SUPPLY AIR PRESSURE TO CIV-40 <80 PSI REDUNDANT INDICATION WHICH WILL VERIFY AI INSTRUMENT AIR PRESSURE INDICATING LOD CIV 40 VALVE POSITION INDICATING LOD 	AS SENSED BY CI-413-PS.	
DISCUSSION:	O CIV-40 VALVE PUSITION INDICATING MID	-0311104.	
LINELOUNE I OF AFTO LIDIO AIN OFLIMILD TALLED AND THEIR FALLED FOSTI	OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO	CIV-40.	

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ENCLOSURE 1 (Page 42 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A	-02-14	C-02-14
		SW ISO	VALVE
		AIR FAILU	IRE
	EVEN	T POIN	IT 0533
INDICATED CONDITION:	C CENCED DV CI	414 DC	
SUFFLY AIR FRESSORE TO CIT-41 GO ISTO F	0 000000 01 03		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS	M: ITION.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM:	M: ITION.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV	M: ITION.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV	M: ITION. -41.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV	M: ITION. -41.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV	M: ITION. -41.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV DISCUSSION:	M: ITION. -41.		
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED A	M: ITION. -41. ALVES AND THE	IR FAILED	D POSITION
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • CIV-41 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO CIV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED A REFERENCES: DRAWING 208-077 SHEET CI-23	M: ITION. -41. ALVES AND THE	IR FAILED) POSITION

ENCLOSURE 1 (Page 43 of 86)

ESAB-A ANNUNCIATUR RESPONSE	ESAB-A-02-14	C-02-1
	SW ISO	VALVE
	FAIL	r JRE
	EVENT POT	NT 185
	EVENT TOT	11 200.
THOTOATCO CONDITION.		
INDICATED CONDITION:		
O SUPPLY ATP PAESSURE TO SWY-12 480 PSIG AS	S SENSED BY SWV-12-PS	
O SUPPLY AIR PRESSURE TO SWAFTE COUPSING AS	S SCHOLD OF SHY IL IS	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	1:	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	۹:	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-12 VALVE POSITION INDICATING MID POSI	1: ITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI	M: ITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM:	M: ITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM:	1: ITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470.	1: ITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POST OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-	4: ITION. -12.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-	4: ITION. -12.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POST OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-	4: ITION. -12.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-	4: ITION. -12.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POST OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-	4: ITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-	4: ITION. -12.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POST OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-	4: ITION. -12.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POST OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV- DISCUSSION:	4: ITION. -12.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POST OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV- DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V/	4: ITION. -12. ALVES AND THEIR FAILE	D POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV- DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V/	4: ITION. -12. ALVES AND THEIR FAILE	D POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV- DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V/ REFERENCES: DRAWING 208-056 SHEFT SW-06	4: ITION. -12. ALVES AND THEIR FAILE	D POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-12 VALVE POSITION INDICATING MID POSI OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV- DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V/ REFERENCES: DRAWING 208-056 SHEET SW-06	4: ITION. -12. ALVES AND THEIR FAILE	D POSITIO

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ENCLOSURE 1 (Page 44 of 86) C-02-14 ESAB-A-02-14 ESAB-A ANNUNCIATOR RESPONSE SW ISO VALVE AIR FAILURE **EVENT POINT 1856** INDICATED CONDITION: ○ SUPPLY AIR PRESSURE TO SWV-35 <80 PSIG AS SENSED BY SWV-35-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-35 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-35. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITION. REFERENCES: DRAWING 208-056 SHEET SW-06 SENSING ELEMENT: SW-35-PS

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ENCLOSURE 1 (Page 45 of 86)

ESAD-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-14
	SW ISO AI FAIL	VALVE R URE
	EVENT POI	NT 1857
INDICATED CONDITION: • SUPPLY AIR PRESSURE TO SWV-37 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR	S SENSED BY SWV-37-PS	
• INSTRUMENT AIR PRESSURE INDICATING LOW.	TTION	
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-37 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	ITION. -37.	
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-37 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V 	-37. ALVES AND THEIR FAILE	D POSITION
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-37 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V REFERENCES: DRAWING 208-056 SHEET SW-07 	ITION. -37. ALVES AND THEIR FAILE	D POSITION

ENCLOSURE 1 (Page 46 of 86)

ESAD-A ANNUNCIATUR RESPONSE	ESAB-A-02-14	C-02-14
	SW ISO AI FAIL	VALVE R URE
	EVENT POI	NT 1858
INDICATED CONDITION: • SUPPLY AIR PRESSURE TO SWV-39 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR	S SENSED BY SWV-39-PS	•
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-39 VALVE POSITION INDICATING MID POS 	ITION.	
OPERATOR ACTION FOR A VALID ALARM.		
OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	-39.	
OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V	-39. ALVES AND THEIR FAILE	D POSITION
OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V REFERENCES: DRAWING 208-056 SHEET SW-07	-39. ALVES AND THEIR FAILE	D POSITION

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ENCLOSURE 1 (Page 47 of 86)

C-02-14 ESAB-A-02-14 ESAB-A ANNUNCIATOR RESPONSE SW ISO VALVE AIR FAILURE **EVENT POINT 1859** INDICATED CONDITION: O SUPPLY AIR PRESSURE TO SWV-41 <80 PSIG AS SENSED BY SWV-41-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-41 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-41. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITION. REFERENCES: DRAWING 208-056 SHEET SW-08 SENSING ELEMENT: SW-41-PS

ENCLOSURE 1 (Page 48 of 86) C-02-14 ESAB-A-02-14 ESAB-A ANNUNCIATOR RESPONSE SW ISO VALVE AIR FAILURE **EVENT POINT 1860** INDICATED CONDITION: O SUPPLY AIR PRESSURE TO SWV-43 <80 PSIG AS SENSED BY SWV-43-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-43 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-43. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITION. REFERENCES: DRAWING 208-056 SHEET SW-08 SENSING ELEMENT: SW-43-PS

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-1
	SW ISO AIF FAILU	VALVE } JRE
	EVENT POIN	IT 186
O SUPPLY AIR PRESSURE TO SWV-45 <80 PSIG A	S SENSED BY SWV-45-PS.	
 SUPPLY AIR PRESSURE TO SWV-45 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-45 VALVE POSITION INDICATING MID POS 	S SENSED BY SWV-45-PS. M: ITION.	
 SUPPLY AIR PRESSURE TO SWV-45 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-45 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. 	S SENSED BY SWV-45-PS. M: ITION.	
 SUPPLY AIR PRESSURE TO SWV-45 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-45 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	S SENSED BY SWV-45-PS. M: ITION.	
 SUPPLY AIR PRESSURE TO SWV-45 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-45 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V 	S SENSED BY SWV-45-PS. M: ITION. -45.	D POSITIC

1 1 ENCLOSURE 1 (Page 50 of 86) C-02-14 ESAB-A-02-14 ESAB-A ANNUNCIATOR RESPONSE SW ISO VALVE AIR FAILURE **EVENT POINT 1862** INDICATED CONDITION: O SUPPLY AIR PRESSURE TO SWV-79 <80 PSIG AS SENSED BY SWV-79-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O INSTRUMENT AIR PRESSURE INDICATING LOW. o SWV-79 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-79. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITION. REFERENCES: DRAWING 208-056 SHEET SW-14 SENSING ELEMENT: SW-79-PS

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14 C-02-
	SW ISO VALVE AIR FAILURE
	EVENT POINT 186
O SUPPLY AIR PRESSURE TO SWV-80 <80 PSIG A	S SENSED BY SWV-80-PS.
 SUPPLY AIR PRESSURE TO SWV-80 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-80 VALVE POSITION INDICATING MID POS 	S SENSED BY SWV-80-PS.
 SUPPLY AIR PRESSURE TO SWV-80 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-80 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	AS SENSED BY SWV-80-PS.
 SUPPLY AIR PRESSURE TO SWV-80 <80 PSIG A REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-80 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V 	AS SENSED BY SWV-80-PS.

ENCLOSURE 1 (Page 52 of 86)

	ESAB-A-02-14	C-02-14
	SW ISO	VALVE R
	FAIL	URE
	EVENT POI	NT 1864
INDICATED CONDITION:		
• SUPPLY AIR PRESSURE TO SWV-81 <80 PSIG A	S SENSED BY SWV-81-PS	
DEDUNDANT THE LEATTON HUTCH HILL VEDTEY ALAD	M .	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	:M :	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR O INSTRUMENT AIR PRESSURE INDICATING LOW.	M:	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS	M: SITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM:	M: SITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM:	M: SITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. (-81.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. (-81.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. (-81.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. (-81.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. (-81.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION:	M: SITION. (-81.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: • ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V	M: TITION. -81. ALVES AND THEIR FAILE	ED POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-81 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V REFERENCES: DRAWING 208-056 SHEET SW-16	M: TITION. -81. ALVES AND THEIR FAILE	ED POSITIO

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ENCLOSURE 1 (Page 53 of 86) ESAB-A-02-14 C-02-14 ESAB-A ANNUNCIATOR RESPONSE SW ISO VALVE AIR FAILURE **EVENT POINT 1865** INDICATED CONDITION: O SUPPLY AIR PRESSURE TO SWV-82 <80 PSIG AS SENSED BY SWV-82-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-82 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. ○ INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-82. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITION.

REFERENCES: DRAWING 208-056 SHEET SW-17

SENSING ELEMENT: SW-82-PS

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-1
	SW ISO M AIR FAILU	VALVE
	EVENT POIN	IT 186
• SUPPLY AIR PRESSURE TO SWV-83 <80 PSIG / REDUNDANT INDICATION WHICH WILL VERIFY ALAN	AS SENSED BY SWV-83-PS.	
 SUPPLY AIR PRESSURE TO SWV-83 <80 PSIG / REDUNDANT INDICATION WHICH WILL VERIFY ALAM INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-83 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. 	AS SENSED BY SWV-83-PS. RM: SITION.	
 SUPPLY AIR PRESSURE TO SWV-83 <80 PSIG / REDUNDANT INDICATION WHICH WILL VERIFY ALAN INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-83 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWT 	AS SENSED BY SWV-83-PS. RM: SITION.	
 SUPPLY AIR PRESSURE TO SWV-83 <80 PSIG / REDUNDANT INDICATION WHICH WILL VERIFY ALAN O INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-83 VALVE POSITION INDICATING MID POSITION INDICATING MID POSITION OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWN DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED	AS SENSED BY SWV-83-PS. RM: SITION. V-83. VALVES AND THEIR FAILED) POSITI

ENCLOSURE 1 (Page 55 of 86)

ESAB-A ANNUNCIATUR RESPONSE	ESAB-A-02-14	C-02-14
	SW ISO AIF FAILU	VALVE R JRE
	EVENT POIN	NT 1867
INDICATED CONDITION: • SUPPLY AIR PRESSURE TO SWV-84 <80 PSIG A: REDUNDANT INDICATION WHICH WILL VERIFY ALARM	S SENSED BY SWV-84-PS.	
O INSTRUMENT AIR PRESSURE INDICATING LOW.	ITION.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-84 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	ITION. -84.	
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-84 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V. 	ALVES AND THEIR FAILE	D POSITION
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-84 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV OISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V. REFERENCES: DRAWING 208-056 SHEET SW-19 	ALVES AND THEIR FAILE	D POSITION

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ENCLOSURE 1 (Page 56 of 86)

ESAB-A ANNUNCIATUR RESPONSE	ESAB-A-02-14	C-02-14
	SW ISO	VALVE
	FAIL	URE
	EVENT POI	NT 1868
INDICATED CONDITION:		
O SUPPLY AIR PRESSURE TO SWV-85 <80 PSIG A	S SENSED BY SWV-85-P	s.
PEDUNDANT INDICATION WHICH WILL VERIEY ALAS)M •	
A THETOMORY AND DESCURE INDICATING LOW	M1.	
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-85 VALVE POSITION INDICATING MID POS 	SITION.	
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-85 VALVE POSITION INDICATING MID POS 	SITION.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: 	SITION.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWI 	SITION.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	SITION. /-85.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWN 	SITION. /-85.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWN 	SITION. /-85.	
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWN 	SITION. /-85.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWN DISCUSSION: 	SITION. /-85.	
 O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWN DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED N 	/-85. /ALVES AND THEIR FAIL	ED POSITION
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWN DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED N 	VALVES AND THEIR FAIL	ED POSITION
 INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-85 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWN DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED N REFERENCES: DRAWING 208-056 SHEET SW-20 	VALVES AND THEIR FAIL	ED POSITION

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-14
	SW ISO AIF FAILU	VALVE R JRE
	EVENT POIN	VT 1869
INDICATED CONDITION: • SUPPLY AIR PRESSURE TO SWV-86 <80 PSIG AS REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING IOW	S SENSED BY SWV-8-PS.	
	TTON	
 SWV-86 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	-86.	
 SWV-86 VALVE POSITION INDICATING MID POSITION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	-86.	
 SWV-86 VALVE POSITION INDICATING MID POSITION ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V. 	-86. ALVES AND THEIR FAILE	D POSITIO
 SWV-86 VALVE POSITION INDICATING MID POSITION ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V REFERENCES: DRAWING 208-056 SHEET SW-21 	-86. ALVES AND THEIR FAILE	D POSITIO

1.0 ENCLOSURE 1 (Page 58 of 86) C-02-14 ESAB-A-02-14 ESAB-A ANNUNCIATOR RESPONSE SW ISO VALVE AIR FAILURE **EVENT POINT 1870** INDICATED CONDITION: O SUPPLY AIR PRESSURE TO SWV-109 <80 PSIG AS SENSED BY SWV-109-PS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-109 VALVE POSITION INDICATING MID POSITION. OPERATOR ACTION FOR A VALID ALARM: O REFER TO AP-470. O INVESTIGATE CAUSE OF LOW PRESSURE TO SWV-109. DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALVES AND THEIR FAILED POSITION. REFERENCES: DRAWING 208-056 SHEET SW-22 SENSING ELEMENT: SW-109-PS

ENCLOSURE 1 (Page 59 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-1
		ananan kana kana kana kana kana kana ka
	SW ISO	VALVE
	FAT	
	EVENT POI	NT 1871
INDICATED CONDITION:		
O SUPPLY AIR PRESSURE TO SWV-110 <80 PSIG /	AS SENSED BY SWV-110	-PS.
Softer han theore to out the test of		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	М:	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	M:	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-110 VALVE POSITION INDICATING MID POS	M: SITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-110 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM:	M: SITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AR-470	M: SITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. -110.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. -110.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. -110.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. -110.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POSITION OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: SITION. -110.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARI • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POS OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV • DISCUSSION:	M: SITION. -110.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POSE OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION:	M: SITION. -110.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POSITION OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VALUE	M: SITION. -110. ALVES AND THEIR FAIL	ED POSITIC
REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-110 VALVE POSITION INDICATING MID POSE OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED VA REFERENCES: DRAWING 208-056 SHEET SW-23	M: SITION. -110. ALVES AND THEIR FAIL	ED POSITIO

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ENCLOSURE 1 (Page 60 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-14
[]		
	SW ISO V	ALVE
	AIR	or
	FAILU	KL
	L	
	EVENT POIN	T 1872
INDICATED CONDITION:		
O SUPPLY AIR PRESSURE TO SWV-353 <80 PSIG	AS SENSED BY SWV-353-PS	S.
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	:M:	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR	:M :	
 REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-353 VALVE POSITION INDICATING MID PO 	M: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO	M: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO • OPERATOR ACTION FOR A VALID ALARM:	M: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM:	M: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470.	CM: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: DSITION. /-353.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	RM: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	RM: DSITION. /-353.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	M: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV	RM: DSITION. /-353.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION:	RM: DSITION. /-353.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION:	M: DSITION.	
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V	XM: DSITION. 7-353. VALVES AND THEIR FAILED	POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V	VALVES AND THEIR FAILED	POSITION
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V REFERENCES: DRAWING 208-056 SHEFT SW-24	VALVES AND THEIR FAILED	POSITIO
REDUNDANT INDICATION WHICH WILL VERIFY ALAR • INSTRUMENT AIR PRESSURE INDICATING LOW. • SWV-353 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: • REFER TO AP-470. • INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V REFERENCES: DRAWING 208-056 SHEET SW-24	M: OSITION. /-353. VALVES AND THEIR FAILED	POSITIO

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-1
	SW ISO AIF FAIL	VALVE R URE
	EVENT POIN	NT 187
O SUPPLY ATR PRESSURE TO SWY-354 280 PSTG	AS SENSED BY SWV-354-1	PS.
 O SUPPLY AIR PRESSURE TO SWV-354 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR O INSTRUMENT AIR PRESSURE INDICATING LOW. O SWV-354 VALVE POSITION INDICATING MID PO 	AS SENSED BY SWV-354-1 M: SITION.	PS.
 SUPPLY AIR PRESSURE TO SWV-354 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-354 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	AS SENSED BY SWV-354-1	PS.
 SUPPLY AIR PRESSURE TO SWV-354 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-354 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSS_JN: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V 	AS SENSED BY SWV-354-1	PS.

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14 C-02-
	SW ISO VALVE AIR FAILURE
	EVENT POINT 187
 SUPPLY AIR PRESSURE TO SWV-355 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-355 VALVE POSITION INDICATING MID PO 	AS SENSED BY SWV-355-PS. M: SITION.
 SUPPLY AIR PRESSURE TO SWV-355 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-355 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	AS SENSED BY SWV-355-PS. M: SITION.
 SUPPLY AIR PRESSURE TO SWV-355 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-355 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V 	AS SENSED BY SWV-355-PS. M: SITION. -355. ALVES AND THEIR FAILED POSIT!

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14	C-02-14
	SW ISO AII FAILU	VALVE R JRE
	EVENT POIN	NT 1875
 SUPPLY AIR PRESSURE TO SWV-151 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAF INSTRUMENT AIR PRESSURE INDICATING LOW. 	AS SENSED BY SWV-151-	PS.
 SUPPLY AIR PRESSURE TO SWV-151 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAF INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-151 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	AS SENSED BY SWV-151- RM: DSITION.	PS.
 SUPPLY AIR PRESSURE TO SWV-151 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAF INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-151 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V 	AS SENSED BY SWV-151- RM: DSITION. V-151.	PS. D POSITIO

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-02-14 C-02-1
	SW ISO VALVE AIR FAILURE
	EVENT POINT 187
• SUPPLY AIR PRESSURE TO SWV-152 <80 PSIG	AS SENSED BY SWV-152-PS.
 SUPPLY AIR PRESSURE TO SWV-152 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-152 VALVE POSITION INDICATING MID PO 	AS SENSED BY SWV-152-PS. M: SITION.
 SUPPLY AIR PRESSURE TO SWV-152 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-152 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV 	AS SENSED BY SWV-152-PS. M: SITION. -152.
 SUPPLY AIR PRESSURE TO SWV-152 <80 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR INSTRUMENT AIR PRESSURE INDICATING LOW. SWV-152 VALVE POSITION INDICATING MID PO OPERATOR ACTION FOR A VALID ALARM: REFER TO AP-470. INVESTIGATE CAUSE OF LOW PRESSURE TO SWV DISCUSSION: ENCLOSURE 1 OF AP-470 LISTS AIR OPERATED V 	AS SENSED BY SWV-152-PS. M: SITION. -152. ALVES AND THEIR FAILED POSITIO

ENCLOSURE 1 (Page 65 of 86) ESAB-A-03-01 C-03-01 ESAB-A ANNUNCIATOR RESPONSE RC-3 **HIGH PRESS** BISTABLE TRIP **EVENT POINT 0939** INDICATED CONDITION: o RCS PRESSURE <1500 PSIG</p> REDUNDANT INDICATION WHICH WILL VERIFY ALARM: ○ ES STATUS LIGHT RC-3 'BISTABLE TRIPPED' INDICATES BLUE. O ACTUATION CHANNEL CABINET #3 BISTABLE OUTPUT STATE LIGHT 'BRIGHT'. OPERATOR ACTION FOR A VALID ALARM: O REFER TO EOP DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED IN A 2 OUT OF 3 HPI LOGIC. REFERENCES: DRAWING 208-028 SHEET ESA-24 SENSING ELEMENT: BT-3 ES ACTUATION RELAY

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-02	C-03-02
	RC-6 LOW PRESS BISTABLE TRIP EVENT POINT 0926	
INDICATED CONDITION: • RCS PRESSURE <500 PSIG REDUNDANT INDICATION WHICH WILL VERIFY ALAR • ES STATUS LIGHT RC-6 'BISTABLE TRIPPED'	M: INDICATES BLUE.	
O ACTUATION CHANNEL CABINET #3 BISTABLE OU	TPUT STATE LIGHT 'BRIG	GHT'.
OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP		
OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP		
OPERATOR ACTION FOR A VALID ALARM: • REFER TO EOP DISCUSSION: THIS ALARM INDICATES ONE CHANNEL TRIPPED I	N A 2 OUT OF 3 LPI LO	GIC.

ENCLOSURE 1 (Page 67 of 86) C-03-03 ESAB-A-03-03 ESAB-A ANNUNCIATOR RESPONSE RWP-1 TRIP EVENT POINT 0001 INDICATED CONDITION: O RWP-1 BREAKER IS OPEN WITH CONTROL HANDLE IN NORMAL AFTER START POSITION. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O GREEN LIGHT ON WITH A RED FLAG ON CONTROL STATION. O RWP-2B AUTO START. O RW-23-PI SW RW SUPPLY PRESSURE LOW. OPERATOR ACTION FOR A VALID ALARM: O ENSURE RWP-28 START. O INVESTIGATE CAUSE OF PUMP TRIP. O CHECK BREAKER FOR DROPPED RELAY TARGETS. DISCUSSION: RWP-2B STARTS ON DECREASING HEADER PRESSURE AT 7 PSIG. REFERENCES: DRAWING 208-050 SHEET RW-01 SENSING ELEMENT: RWP-1 CONTROL SWITCH CONTACTS CS/SC, CS/O, RW-63-PS1

ENCLOSURE 1 (Page 68 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-04	C-03-04
	SW RW PUMP MOTOR OVERLOAD	
	EVENT POIN	T 0002
 RWP-1 MOTOR AMPS >115% RATED LOAD REDUNDANT INDICATION WHICH WILL VERIFY ALARM HIGH MOTOR AMPS. RW-23-PL SW RW SUPPLY PRESSURE LOW 	:	
OPERATOR ACTION FOR A VALID ALARM: • START RWP-2A OR RWP-2B, SECURE RWP-1. • INVESTIGATE CAUSE OF OVERLOAD.		
DISCUSSION: THIS ALARM INDICATES EITHER THE TIMED OVERC OVERCURRENT PROTECTIVE DEVICES HAVE ACTUATE RELAY ACTUATION WILL TRIP THE BREAKER. IT IS POSSIBLE TO HAVE THIS ALARM PRIOR TO	URRENT OR INSTANTANEO D. INSTANTANEOUS OVER THE BREAKER TRIP.	US CURRENT
DECEDENCES DRAWING 200 DED SHEET DW 01		
REFERENCES: DRAWING 200-050 SHEET RW-01	anna agus ann an ann ann an ann an ann an ann an	
ENCLOSURE 1 (Page 69 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-05	C-03-05
	SW RW S PRES	YSTEM SS
	EVENT POIN	NT 0007
NDICATED CONDITION: ○ NUCLEAR SERVICES RAW WATER HEADER PRESS <7	PSIG AS SENSED BY	RW-63-PS1.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM O RWP-2B AUTO START. O POSSIBLE RW PUMP TRIP.		
OPERATOR ACTION FOR A VALID ALARM: • ENSURE RWP-2B AUTO START. • INVESTIGATE CAUSE OF LOW PRESSURE. • CHECK INTAKE AREA AND INTAKE SCREENS FOR (DESTRUCTIONS TO FLOW	
• CHECK FOR PROPER VALVE ALIGNMENT FOR RUNN	ING RW PUMP.	
O CHECK FOR PROPER VALVE ALIGNMENT FOR RUNNI	ING RW PUMP.	
O CHECK FOR PROPER VALVE ALIGNMENT FOR RUNNI DISCUSSION: REFERENCES: DRAWING 208-050 SHEET RW-03	ING RW PUMP.	

ENCLOSURE 1 (Page 70 of 86)

C-03-06 ESAB-A-03-06 ESAB-A ANNUNCIATOR RESPONSE RWP AND SW RW PP RUNNING **EVENT POINT 0024** INDICATED CONDITION: O RWP-1 AND RWP-2A AND/OR RWP-2B RUNNING AT THE SAME TIME. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O INDICATION OF MORE THAN ONE PUMP RUNNING. O RW SYSTEM HEADER PRESSURE HIGH. O RWP-2B AUTO START ALARM. OPERATOR ACTION FOR A VALID ALARM: O SECURE RW PUMP(S) NOT REQUIRED. DISCUSSION: IF RWP-1 IS RUNNING WITH EITHER RWP-2A AND/OR RWP-2B, THEN RWP-1 WILL TRIP AFTER 15 SECONDS. REFERENCES: DRAWING 208-050 SHEET RW-01 SENSING ELEMENT: 525/A RELAY (RWP-1, RWP-2A, RWP-2B 4160V BREAKER CUBICLES)

ENCLOSURE 1 (Page 71 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-07	C-03-07
	RW S TEM HIG	SW IP IH
	EVENT POIN	NT 0054
INDICATED CONDITION: • RAW WATER SUPPLY TO SW HEAT EXCHANGERS TEM BY RW-19-TS.	1PERATURE IS >92°F	AS SENSED
 REDUNDANT INDICATION WHICH WILL VERIFY ALARM: RW TEMPERATURE INDICATION RW-19-TI 		
OPERATOR ACTION FOR A VALID ALARM:		
 NOTIFY AUXILIARY BUILDING OPERATOR TO SHUT CLOSED RWV-150 OR CLOSING RWV-149. ENSURE SW RW TEMPERATURE CONTROL SURVEILLA NORMAL POSITION. 	TDOWN RW PIT RECIRC	BY FAILING N THE
DISCUSSION:		
RWV-150 IS THE SW TEMPERATURE CONTROL VALVE RW BACK TO THE "B" SIDE RW PIT AS NECESSARY TEMPERATURE AT 85° F (WHEN GULF OF MEXICO/R/	AND RECIRCULATES "B TO MAINTAIN SW SYST AW WATER TEMPERATURE	" SIDE SW EM IS BELOW
RWV-150 IS A SPRING CLOSE/AIR TO OPEN CONTRO LOSS OF DC POWER TO CONTROL VALVE SOLENOID, AND RWP-2B AUTO START, RWP-3B AUTO START.	DL VALVE AND FAILS C LOSS OF AIR SUPPLY	LOSED ON: PRESSURE,
REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS	•	
REFERENCES: DRAWING 210-583, MAR 86-12-02-04	4	

Benergenselster and a set of the	ESAB-A-03-08	C-03-0
	BWS LEVI HIGH/	T EL LOW
	EVENT POIN	VT 015
INDICATED CONDITION: • BWST LEVEL <45' AS SENSED BY DH-11-LS REDUNDANT INDICATION WHICH WILL VERIFY ALA	.RM :	
 DH-7-LI DH-37-LI DH-7-LIR COMPUTER POINT X335 		
OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF DECREASING LEVEL.		
DISCUSSION: REFER TO TS FOR ADMINISTRATIVE REQUIREMEN	ITS.	

ENCLOSURE 1 (Page 73 of 86)

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-08	C-03-08
	page 1000 1000 1000 1000 1000 1000 1000 10	
	BWS LEVE HIGH/	T EL LOW
	EVENT POIN	IT 0233
INDICATED CONDITION: • BWST LEVEL >47' AS SENSED BY DH-11-LS.		
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DH-7-LI O DH-37-LI O DH-7-LIR O COMPUTER POINT X335		
OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF INCREASING LEVEL.		
DISCUSSION:		
REFERENCES: DRAWING 208-021 SHEET DH-22		

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Lor	AB-A ANNUNCIATOR RESPONSE	ESAB-A-03-08	C-03-0
		BWS LEVI HIGH/	T EL LOW
		EVENT POIN	NT 023
INDICATED CONDI	TION: 25' AS SENSED BY DH-7-LS1.		
REDUNDANT INDIC O DH-7-LI O DH-37-LI O DH-7-LIR O COMPUTER POI	ATION WHICH WILL VERIFY ALARM	:	
OPERATOR ACTION O INVESTIGATE O ALIGN ONLY O ABNORMAL OPE	FOR A VALID ALARM: CAUSE OF DECREASING LEVEL. NE MUP PER BWST SUCTION. REF RATING PROCEDURE.	ER TO DIRECTING EMER	GENCY/
DISCUSSION:		· · · · · · · · · · · · · · · · · · ·	
REFER TO TS FO	R ADMINISTRATIVE REQUIREMENTS		

ENCLOSURE 1 (Page 75 of 86)

ESAB-A-03-08 C-03-08 ESAB-A ANNUNCIATOR RESPONSE BWST LEVEL HIGH/LOW **EVENT POINT 0235** INDICATED CONDITION: O BWST LEVEL <2' 3-3/8" AS SENSED BY DH-7-LS1. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DH-7-LI 0 DH-37-LI O DH-7-LIR O COMPUTER POINT X335 OPERATOR ACTION FOR A VALID ALARM: O INVESTIGATE CAUSE OF DECREASING LEVEL. O REFER TO OP-402 AND OP-404 FOR STEPS NECESSARY TO PRECLUDE DAMAGE TO MU AND DH SYSTEMS PUMPS DUE TO INADEQUATE NPSH. DISCUSSION: REFER TO TS FOR ADMINISTRATIVE REQUIREMENTS. . REFERENCES: DRAWING 208-021 SHEET DH-24 SENSING ELEMENT: DH-7-LS1

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2 1 ENCLOSURE 1 (Page 76 of 86) C-03-09 ESAB-A ANNUNCIATOR RESPONSE ESAB-A-03-09 BWST TEMP HIGH/LOW **EVENT POINT 0236** INDICATED CONDITION: ○ BWST TEMPERATURE >110°F AS SENSED BY DH-9-TTS. REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DH-10-TI O DH-9-TI O COMPUTER POINT X336 OPERATOR ACTION FOR A VALID ALARM: O INVESTIGATE CAUSE OF INCREASING TEMPERATURE. O ENSURE BWST HEATER(S) NOT IN OPERATION. DISCUSSION: REFERENCES: DRAWING 208-021 SHEET DH-22 SENSING ELEMENT: DH-9-TTS

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-09	C-03-09
	BWS TEM HIGH/	T P LOW
	EVENT POIN	IT 0237
INDICATED CONDITION: • BWST TEMPERATURE < 60°F AS SENSED BY DH REDUNDANT INDICATION WHICH WILL VERIFY ALA • DH-10-TI • DH-9-TI • COMPUTER POINT X336	I-10-TTS.	
OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF DECREASING TEMPERA • ENSURE BWST HEATER(S) IN OPERATION.	ATURE.	
DISCUSSION: REFER TO STS FOR ADMINISTRATIVE REQUIREME	ENTS.	

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-11 C-03-11
	DH TO PZR SPRAY VALVE OPEN
	EVENT POINT 0240
O DHV-91 NOT FULL CLOSED AND RCS PRESSURE RC-3A-PS7.	E >284 PSIG AS SENSED BY
 DHV-91 NOT FULL CLOSED AND RCS PRESSURE RC-3A-PS7. REDUNDANT INDICATION WHICH WILL VERIFY ALL DHV-91 VALVE POSITION INDICATION. RCS PRESSURE INDICATION. 	E >284 PSIG AS SENSED BY
 DHV-91 NOT FULL CLOSED AND RCS PRESSUR RC-3A-PS7. REDUNDANT INDICATION WHICH WILL VERIFY ALX DHV-91 VALVE POSITION INDICATION. RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: INVESTIGATE CAUSE OF INCREASING PRESSU CLOSE DHV-91 IF RCS PRESSURE >284 PSIG 	E >284 PSIG AS SENSED BY ARM: RE.
 DHV-91 NOT FULL CLOSED AND RCS PRESSUR RC-3A-PS7. REDUNDANT INDICATION WHICH WILL VERIFY ALX DHV-91 VALVE POSITION INDICATION. RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: INVESTIGATE CAUSE OF INCREASING PRESSUR CLOSE DHV-91 IF RCS PRESSURE >284 PSIG DISCUSSION: 	E >284 PSIG AS SENSED BY ARM: RE.

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-11 C-03-11
	DH TO PZR SPRAY VALVE OPEN
	EVENT POINT 1316
INDICATED CONDITION: • RCV-53 NOT FULL CLOSED AND RCS PRESSUP PC-34-PS7	RE >200 PSIG AS SENSED BY
NC-SA-FST.	
REDUNDANT INDICATION WHICH WILL VERIFY AU O RCV-53 VALVE POSITION INDICATION. O RCS PRESSURE INDICATION.	LARM:
REDUNDANT INDICATION WHICH WILL VERIFY AU • RCV-53 VALVE POSITION INDICATION. • RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF INCREASING PRESSU • CLOSE RCV-53 IF RCS PRESSURE >200 PSIC	URE. G.
REDUNDANT INDICATION WHICH WILL VERIFY AU • RCV-53 VALVE POSITION INDICATION. • RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE CAUSE OF INCREASING PRESSU • CLOSE RCV-53 IF RCS PRESSURE >200 PSIC	LARM: URE. G.

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-12	C-03-1
	DH V/ ACI SY TROU	ALVE YSTEM BLE
	EVENT POI	NT 123
INDICATED CONDITION:		
 ACI SUBSYSTEM 1 OR 2 BYPASS KEY IN BYPASS ACI SUBSYSTEM 1 OR 2 MODULE REMOVED. DHV-3 OR DHV-4 NOT FULL CLOSED AND RCS PR 	POSITION. ESSURE >284 PSIG.	
REDUNDANT INDICATION WHICH WILL VERIFY ALARM	l:	
 DHV-3 VALVE POSITION INDICATION. DHV-4 VALVE POSITION INDICATION. RCS PRESSURE INDICATION. 		
OPERATOR ACTION FOR A VALID ALARM:		
 INVESTIGATE CAUSE OF INCREASING PRESSURE. CLOSE DHV-3 AND/OR DHV-4 IF RCS PRESSURE 	>284 PSIG.	
DISCUSSION:		
 DHV-3 ACI USES RC-147-PT FOR RCS PRESSURE SHUTDOWN PANEL. DHV-4 ACI USES RC-132-PT FOR RCS PRESSURE CABINET #3. 	AND CAN BE SEEN ON AND CAN BE SEEN IN	THE REMOT
CHOTHET NOT		

	ESAB-A-03-13	C-03-13
	DH DROF VALV OPE	PLINE ES N
	EVENT POIN	NT 0214
INDICATED CONDITION: • DHV-3 NOT CLOSED AND RCS PRESSURE >200 PSI	G AS SENSED BY 3RC-3	3A-PS8.
REDUNDANT INDICATION WHICH WILL VERIFY ALARM: O DHV-3 VALVE POSITION INDICATION.		
O RCS PRESSURE INDICATION.		
OPERATOR ACTION FOR A VALID ALARM:		
OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-3 IF RCS PRESSURE >284 PSIG.		
OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-3 IF RCS PRESSURE >284 PSIG.		
O RCS PRESSORE INDICATION. OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-3 IF RCS PRESSURE >284 PSIG.		
OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-3 IF RCS PRESSURE >284 PSIG.		
O RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-3 IF RCS PRESSURE >284 PSIG. DISCUSSION:		
O RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: o CLOSE DHV-3 IF RCS PRESSURE >284 PSIG. DISCUSSION: REFERENCES: DRAWING 208-021 SHEET DH-03		

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-13	C-03-13
	DH DROP VALV OPE	LINE ES N
	EVENT POIN	IT 021
 O DHV-4 NOT CLOSED AND RCS PRESSURE >200 PS REDUNDANT INDICATION WHICH WILL VERIFY ALARM O DHV-4 VALVE POSITION INDICATION. O RCS PRESSURE INDICATION. 	IG AS SENSED BY 3RC-3	3A-PS9.
 O DHV-4 NOT CLOSED AND RCS PRESSURE >200 PS REDUNDANT INDICATION WHICH WILL VERIFY ALARM O DHV-4 VALVE POSITION INDICATION. O RCS PRESSURE INDICATION. O PERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-4 IF RCS PRESSURE >284 PSIG. 	IG AS SENSED BY 3RC-3	3A-PS9.
 O DHV-4 NOT CLOSED AND RCS PRESSURE >200 PS REDUNDANT INDICATION WHICH WILL VERIFY ALARM O DHV-4 VALVE POSITION INDICATION. O RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-4 IF RCS PRESSURE >284 PSIG. DISCUSSION: 	IG AS SENSED BY 3RC-3	BA-PS9.
 O DHV-4 NOT CLOSED AND RCS PRESSURE >200 PS REDUNDANT INDICATION WHICH WILL VERIFY ALARM O DHV-4 VALVE POSITION INDICATION. O RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-4 IF RCS PRESSURE >284 PSIG. DISCUSSION: 	IG AS SENSED BY 3RC-3	3A-PS9.

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-13	C-03-1
	DH DROP VALV OPE	LINE
	EVENT POIN	NT 021
	BOYD AC OFNOED DU ADA	24 004
 DHV-41 NOT CLOSED AND RCS PRESSURE >200 REDUNDANT INDICATION WHICH WILL VERIFY ALAR DHV-41 VALVE POSITION INDICATION. DESCRIPTION INDICATION. 	PSIG AS SENSED BY 3RC	-3A-PS4.
 O DHV-41 NOT CLOSED AND RCS PRESSURE >200 REDUNDANT INDICATION WHICH WILL VERIFY ALAR O DHV-41 VALVE POSITION INDICATION. O RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-41 IF RCS PRESSURE >284 PSIG. 	PSIG AS SENSED BY 3RC	-3A-PS4.
 O DHV-41 NOT CLOSED AND RCS PRESSURE >200 REDUNDANT INDICATION WHICH WILL VERIFY ALAR O DHV-41 VALVE POSITION INDICATION. O RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: O CLOSE DHV-41 IF RCS PRESSURE >284 PSIG. DISCUSSION: 	PSIG AS SENSED BY 3RC	-3A-PS4.
 OHV-41 NOT CLOSED AND RCS PRESSURE >200 REDUNDANT INDICATION WHICH WILL VERIFY ALAR OHV-41 VALVE POSITION INDICATION. RCS PRESSURE INDICATION. OPERATOR ACTION FOR A VALID ALARM: OLOSE DHV-41 IF RCS PRESSURE >284 PSIG. DISCUSSION: 	PSIG AS SENSED BY 3RC	-3A-PS4.

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ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-14	<u>C-03-14</u>
	SEISMIC SYSTEM TROUBLE	
	EVENT POIN	NT 1709
INDICATED CONDITION: • SEISMIC EVENT OCCURRED REDUNDANT INDICATION WHICH WILL VERIFY ALARM • INDICATION AT SEISMIC PANEL. • NOTIFICATION OF SEISMIC EVENT.	1:	
OPERATOR ACTION FOR A VALID ALARM: • CHECK SEISMIC PANEL FOR CAUSE OF ALARM. • REFER TO AP-961.		•
DISCUSSION		
I&C SHOP PERFORMS ALL SURVEILLANCE PROCEDUR REPLACEMENT WHEN REQUIRED.	RES AND MAGNETIC TAPE	

ICATED CONDITION: SEISMIC PANEL LOSS OF POWER UNDANT INDICATION WHICH WILL VERIFY ALARM: INDICATION AT SEISMIC PANEL. RATOR ACTION FOR A VALID ALARM:	SEISM SYSTE TROUB	IIC EM SLE IT 171(
ICATED CONDITION: SEISMIC PANEL LOSS OF POWER UNDANT INDICATION WHICH WILL VERIFY ALARM: INDICATION AT SEISMIC PANEL. RATOR ACTION FOR A VALID ALARM:	SEISM SYSTI TROUB	IIC EM SLE IT 171(
ICATED CONDITION: SEISMIC PANEL LOSS OF POWER UNDANT INDICATION WHICH WILL VERIFY ALARM: INDICATION AT SEISMIC PANEL. RATOR ACTION FOR A VALID ALARM:	EVENT POIN	IT 171(
ICATED CONDITION: SEISMIC PANEL LOSS OF POWER UNDANT INDICATION WHICH WILL VERIFY ALARM: INDICATION AT SEISMIC PANEL. RATOR ACTION FOR A VALID ALARM:		
UNDANT INDICATION WHICH WILL VERIFY ALARM: INDICATION AT SEISMIC PANEL. RATOR ACTION FOR A VALID ALARM:		
RATOR ACTION FOR A VALID ALARM:		
INVESTIGATE SEISMIC PANEL FOR CAUSE OF LOSS OF REFER TO OP-700C.	POWER ALARM.	
CUSSION: WER SUPPLY IS ACDP-52 BREAKER 31		
ERENCES :		

ESAB-A ANNUNCIATOR RESPONSE	ESAB-A-03-14	C-03-14
	SEISMIC SYSTEM TROUBLE EVENT POINT 1711	
INDICATED CONDITION: • SEISMIC RECORDER END OF TAPE. REDUNDANT INDICATION WHICH WILL VERIFY ALARM:		
OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE SEISMIC PANEL RECORDER, IF AT WORK REQUEST TO REPLACE MAGNETIC TAPE(S).	THE END OF TAPE, GEI	NERATE A
OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE SEISMIC PANEL RECORDER, IF AT WORK REQUEST TO REPLACE MAGNETIC TAPE(S). DISCUSSION: I&C SHOP PERFORMS ALL SURVEILLANCE PROCEDURE REPLACEMENT WHEN REQUIRED.	THE END OF TAPE, GEN	NERATE A
OPERATOR ACTION FOR A VALID ALARM: • INVESTIGATE SEISMIC PANEL RECORDER, IF AT WORK REQUEST TO REPLACE MAGNETIC TAPE(S). DISCUSSION: I&C SHOP PERFORMS ALL SURVEILLANCE PROCEDURE REPLACEMENT WHEN REQUIRED. REFERENCES:	THE END OF TAPE, GEN	NERATE A

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