JEFFREY	MINING	JEFFREY MINING	PRODU	JCTS			DRAWING	CONTA	
JELLIKET	PRODUCTS	274 EAST 1ST AV	E.			CONFIDENTIA THE EXCL		TION AND ROPERTY	IS OF
		COLUMBUS. OHI	COLUMBUS. OHIO 43201				MINING	PRODUC'	
							HE DRAWI		ITS
							ARE TO		ED,
						REPRODUCED,	OR D	ISCLOSER	IN
						WHOLE OR	PART , WI		RIOR
						WRITTEN C	ONSENT F	ROM JEFF	REY
						MINING PROI	DUCTS.		
DRAWING NO.		SHEET	PART	7 36 MA	CHINE AP	PROVAL N	UMBERS	THAT US	E
		NO.	THIS	CHECK	LIST:				
561	A678	1		OII_OII		-001			
DRAWN	DATE	R							
JWS	2/2/98	E							,
		-							
		v							
CHECKED	DATE								

MACHINE/ELECTRICAL CHECKLIST

MAKE AND MODEL NO. - JEFFREY MODEL 4116/4120 MACHINE TYPE: RAMCAR

IF AN MSHA PART 36 APPROVAL PLATE HAS BEEN AFFIXED TO THIS MACHINE, IT MUST MEET THE REQUIREMENTS OF PART 36, TITLE 30, CODE OF FEDERAL REGULATIONS. IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT THIS MACHINE IS MAINTAINED IN PERMISSIBLE CONDITION IN ACCORDANCE m THIS CHECKLIST.

ALL INSPECTIONS AND TESTS SHALL BE PERFORMED IN FRESH AIR

PERMISSIBILITY:

- 1. FOR A COMPLETE PERMISSIBILITY EVALUATION, THIS CHECKLIST MUST BE USED IN CONJUNCTION WITH A POWER SYSTEM CHECKLIST.
- 2. DUE TO BRAKING CAPABILITY LIMITATIONS, THIS MACHINE SHALL NOT BE OPERATED ON GRADES GREATER THAN 30%.
- 3. THE APPROVAL PLATE SPECIFIES A VENTILATION RATE OF 9500 CFM FOR COAL MINES AND 17000 CFM FOR GASSY NON-COAL MINES.

TEST SHE		TLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA				
DISTR. CODE	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 12	
SEE DRG.	В		L.		561A678	1	SHEETS	

JEFFREY	MINING PRODUCTS	274 EAS	Y MINING ST 1ST AV BUS. OHI	Έ.		JEFFREY NEITHER T CONTENTS REPRODUCED WHOLE OR	USIVE MINING HE DRAW ARE TO , OR PART , ONSENT	MATION AND PROPERTY PRODUING OR DE DISCLOSED WITHOUT	OF OUCTS. ITS USED,
DRAWING NO.			SHEET NO.			PROVAL NU	MBERS	THAT U	JSE
561	A678		NO. <u>2</u>	THIS	CHECK	C-001			_
DRAWN JWS	DATE 2/2/98		R E V	·					
CHECKED	DATE								

A. <u>FUEL SYSTEM:</u>

- *1. () THERE ARE NO FUEL LEAKS.
- *2. () THE FUEL TANK IS VENTED AND THE VENT IS NOT PLUGGED OR RESTRICTED,

TANK VENT

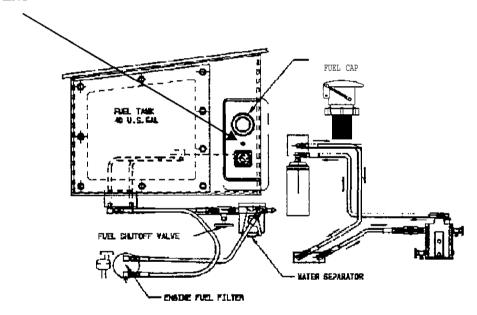


FIGURE 1

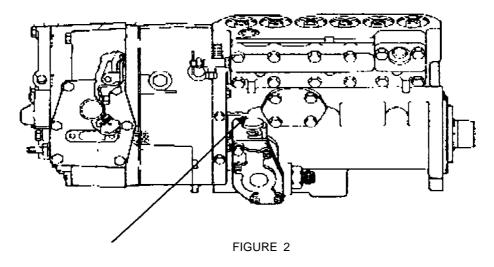
*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 75.1914.

TEST SHE		TLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA				
DISTR. CODE	STD:	SPECIAL:	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 12	
SEE DRG.	В		L.		561A678	2	SHEETS	

^{* *}REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

JEFFREY	MINING PRODUCTS	JEFFREY MINING 274 EAST 1ST AV COLUMBUS. OH	/E.			THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION AND IS THE EXCLUSIVE PROPERTY OF JEFFREY MINING PRODUCT: NEITHER THE DRAWING OR ITS CONTENTS ARE TO BE USED REPRODUCED, OR DISCLOSED IN WHOLE OR PART, WITHOUT PRIOR WRITTEN CONSENT FROM JEFFREY MINING PRODUCTS.				
DRAWING NO.	SHEET NO,		T 36 MA S CHECK	KLIST:	PROVAL NU	MBERS 7	THAT US	E		
561	IA678	Ŭ			36C	-001				
DRAWN JWS CHECKED	DATE 2/2/98 DATE	R E v								

^{*3. ()} THE FUEL FILLER CAP IS SELF-CLOSING AND IS ATTACHED TO THE TANK IN A MANNER WHICH WILL PREVENT LOSS DURING REFUELING. (SEE FIGURE 1)



FUEL ADJUSTMENT COVER SCREWS SAFETY LOCKWIRED

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENACE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 75.1914.

TEST SHE		TLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA				
DISTR. CODE	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 12	
SEE DRG,	В		L		561A678	3	SHEETS	

^{*4. ()} AUXILIARY FUEL TANK CAPACITY HAS NOT BEEN ADDED TO THE VEHICLE.

⁵ FUEL FILTER **IS PROPERLY INSTALLED AND IS NOT DAMAGED.

^{*6 ()} WATER SEPERATOR IS PROPERLY INSTALLED AND IS NOT DAMAGED.

^{*7. ()} THE FUEL INJECTION RATE ADJUSTMENT MECHANISM (3)** AND THE ENGINE GOVERNOR SETTING ARE LOCKED AND SEALED (SEE FIGURE 2).

^{**}REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

JEFFREY	MINING PRODUCTS	JEFFREY MINING 274 EAST 1ST AV COLUMBUS. OHI	E.			CONFIDENTIA THE EXCLU JEFFREY NEITHER TO CONTENTS REPRODUCED WHOLE OR	JSIVE PHE MINING HE DRAWIN ARE TO TO PART, WI'D DISENT FI	ROPERTY PRODUCTS IG OR BE USE SCLOSED	IS OF S. ITS ED, IN IOR
DRAWING NO.		SHEET NO.	Γ			PROVAL NU	MBERS 7	THAT USI	E
561 A	A678	4	THI	S CHI	ECKLIS' 360	T: C-001			
DRAWN JWS	DATE 2/2198	R E v							
CHECKED	DATE								

- *8. () THE FUEL SHUTOFF VALVE (4)** IN THE FUEL SUPPLY LINE IS OPERABLE.
- *9, () THE DRAIN PLUG (5)** IN THE FUEL TANK IS LOCKED IN POSITION,
- *10. () FIFE PLUGS ARE CONSIDERED "LOCKED IN POSITION" WHEN TIGHT).
 - 10. () FUEL LINES ARE NOT ROUTED NEAR OR CONNECTED TO HOT EXHAUST COMPONENTS AND ARE PROTECTED FROM EXTERNAL DAMAGE.
- *11. () FUEL LINES ARE SECURED.

B. BRAKING SYSTEM:

WARNING

BRAKE TESTS ARE TO BE CONDUCTED ON A RELATIVELY LEVEL SURFACE, AWAY FROM TRAFFIC AREAS WHERE OTHER MACHNES OR PERSONS MAY BE MOVING ABOUT. CONSIDER THE POSSIBLE CONSEQUENCES OF TESTING A MACHINE WITH ASSUMED BRAKING INADEQUACIES, AND SELECT AN AREA WHERE THE TEST MACHINE WOULD NOT CAUSE AN ACCIDENT DUE TO THESE INADEQUACIES.

*1. () <u>SERVICE BRAKE TEST</u>

- A m THE ENGINE OPERATING AND THE MACHINE STATIONARY, APPLY THE SERVICE BRAKE.
- B. RELEASE ALL OTHER BRAKES

•(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 75-1914.

TEST SHE		TLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA				
DISTR. CODE	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET No.	OF 12	
SEE DRG.	В		L		561A678	4	SHEETS	

^{**}REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM.

JEFFREY	MINING PRODUCTS	JEFFREY MINING PRODUCTS 274 EAST 1ST AVE. COLUMBUS. OHIO 43201					CONFIDENTIA THE EXCLU JEFFREY NEITHER TI CONTENTS REPRODUCED, WHOLE OR	JSIVE P MINING HE DRAW ARE TO OR D PART, WI DNSENT F	PROPERTY C PRODUC ING OR BE US ISCLOSED	IS OF TS. ITS ED, IN
DRAWING NO,			SHEET No.				PROVAL NU	JMBERS	THAT US	E
561	4678		5	THIS	S CHECK		C-001			
DRAWN JWS	DATE 2/2/98		R E v							
CHECKED	DATE									

- c. PLACE THE TRANSMISSION GEAR SELECTOR IN SECOND GEAR AND THE DIRECTIONAL CONTROL SELECTOR IN FORWARD OR REVERSE.
- D. DEPRESS THE ACCELERATOR TO FULL THROTTLE. ALLOWING THE ENGINE TO PUT THE TRANSMISSION TORQUE CONVERTER INTO A STALL CONDITION.

IF THE SERVICE BRAKE IS OPERATING SATISFACTORILY. THE UNIT WILL NOT MOVE WHEN THE ABOVE PROCEDURE IS FOLLOWED. IF MOVEMENT IS DETECTED, THE SERVICE BRAKE MUST BE REPAIRED OR ADJUSTED.

• 2+ () PARKING BRAKE TEST.

- A WITH THE ENGINE OPERATING AND THE MACHINE STATIONARY, APPLY THE PARKING BRAKE (6)**.
- B. RELEASE ALL OTHER BRAKES.
- c. PLACE THE TRANSMISSION GEAR SELECTOR IN THIRD GEAR AND THE DIRECTIONAL CONTROL SELECTOR IN FORWARD OR REVERSE.
- D. ACTUATE THE DECLUTCH BYPASS VALVE LOCATED ON THE LEFT SIDE WALL OF OPERATOR'S COMPARTMENT AND HOLD DURING TEST.

WARNING RELEASING THE DECLUTCH BYPASS VALVE DURING TEST WILL CAUSE THE MACHINE TO LURCH IN FORWARD OR REVERSE DIRECTION AS SELECTED. NOTE: IF THE DECLUTCH BYPASS VALVE IS RELEASED DURING TEST. THE TEST PROCEDURE MUST BE STARTED AGAIN BEGINNING WITH A.

- E. SHIFT PARK BRAKE LEVER FROM "ON" POSITION TO "AUTO" POSITION.
- F, DEPRESS THE ACCELERATOR TO FULL THROTTLE, ALLOWING THE ENGINE TO PUT THE TRANSMISSION TORQUE CONVERTER INTO A STALL CONDITION.
- G. AFTER TEST, RETURN ENGINE TO LOW IDLE, RELEASE DECLUTCH BYPASS VALVE AND RETURN PARK BRAKE LEVER TO "ON" POSITION.

IF THE PARKING BRAKE IS OPERATING SATISFACTORILY, THE UNIT WILL NOT MOVE WHEN THE ABOVE PROCEDURE IS FOLLOWED. IF MOVEMENT IS DETECTED, THE PARKING BRAKE MUST BE REPAIRED OR ADJUSTED.

**REFERENCE ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 1914.

TEST SHE		TLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA				
DISTR. CODE	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 12	
SEE DRG.	В		L.		561A678	5	SHEETS	

JEFFREY	MINING PRODUCTS	JEFFREY MIN 274 EAST 1ST COLUMBUS.	AVE.	CTS		CONFIDENTIA THE EXCLU JEFFREY NEITHER TI CONTENTS REPRODUCED WHOLE OR WRITTEN CO	JSIVE PF MINING HE DRAWII ARE TO OR DI PART, WI	ROPERTY PRODUCT NG OR BE US: SCLOSED	IS OF S . ITS ED, IN
DRAWING NO, 561A678				36 MZ CHECK	LIST:	PPROVAL I	NUMBERS	THAT US	E
DRAWN JWS	DATE 2/2/98	R E v							
CHECKED	DATE								

NOTE: ANYTIME MAINTENANCE OR WORK IS PERFORMED ON THE PARKING/EMERGENCY BRAKE SYSTEM, THE FOLLOWING CHECK IS TO BE PERFORMED.

- 3. () 5 SECOND AUTOMATIC PARKING EMERGENCY BRAKE ENGAGEMENT TEST.
 - A START THE ENGINE.
 - B. SET THE EMERGENCY BRAKE LEVER TO AUTOMATIC. (RELEASE POSITION)
 - C. LOCATE AND WATCH THE PRESSURE GAGE MOUNTED UNDER THE FIRST COVER IN FRONT OF THE OPERATOR IN THE TRANSMISSION COMPARTMENT. THE SYSTEM RELEASE PRESSURE SHOULD BE APPROXIMATELY 225 psi.
 - D. SHUT DOWN THE ENGINE AND NOTE THE TIME TILL PRESSURE DROPS TO NEAR ZERO ON THE GAGE. IF LONGER THAN 5 SECONDS, THE SYSTEM NEEDS REPAIRED AND RE-TESTED UNTIL THE 5 SECOND TIME IS ACHIEVED.

TEST SHEET TITLE: MACHINE/ELECTRICAL CHECKLIST					MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA				
DISTR. CODE SEE DRG.	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER 561A678	SHEET NO. 6	OF 12 SHEETS		
					301A076	Ů			

JEFFREY	MINING	JEFFRE	EY MINING	PROD	UCTS		THIS	DRAWING	CONTA	SNIA
JLIIIVLI	PRODUCTS	274 EAS	ST 1ST AV	E.			CONFIDENTIA			IS OF
		COLUM	BUS. OHIO	320	1		THE EXCLI	USIVE P MINING	ROPERTY PRODUC	-
							-	HE DRAWI		ITS
							CONTENTS	ARE TO	BE US	SED,
							REPRODUCED,	, OR DI	SCLOSED	IN
							WHOLE OR	,		RIOR
									ROM JEFF	REY
B ANNING MG				_				DUCTS.		
DRAWING NO.			SHEET	PAR	T 36 MAC	CHINE API	PROVAL NU I	MBERS 1	THAT US	\mathbf{E}
			NO. 7	THIS	S CHECK	LIST:				
561	A678	1	, , ,	I		36	C-001			
DRAWN	DATE		R							
JWS	2/2/98		E							
			v							
CHECKED	DATE		•							

c. <u>ELECTRICAL LIGHTING SYSTEM:</u>

ALL ELECTRICAL ENCLOSURES MUST MEET THE FOLLOWING:

*1.	()	ALL ELECTRICAL ENCLOSURES (I.E. ALTERNATOR (7)**, HEADLIGHT
		SWITCH (8)**, HEADLIGHT (9)** CONNECTION BOX(S) HAVE AN MSHA
		PLATE ATTACHED THAT IS CLEARLY STAMPED WITH AN MSHA
		CERTIFICATION NUMBER
2 .	()	ALL ELECTRICAL ENCLOSURES ARE SECURELY MOUNTED AND ALL
	,	VULNERABLE ELECTRICAL COMPONENTS ARE PROTECTED FROM PHYSICAL
		DAMAGE.
*3.	()	ALL ELECTRICAL ENCLOSURES ARE INTACT (NOT CHECKED OR
	()	BROKEN) THE HEADLICHT LENSES ARE NOT LOOSE ALL SHAFT

AND/OR PUSHBUTTON CONTROLS ARE OPERABLE.

**REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 75-1914.

TEST SHE		TLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 12
SEE DRG.	В		L		561A678	7	SHEETS

JEI		DE	V M	INING	JEFFRE	Y MINING	PROD	UCTS		-	DRAWING		TAINS
JL		ΓL	P F	RODUCTS	274 EAS	ST 1ST AVE				CONFIDENTIA THE EXCL		TION AN	D I
					COLUMBU	JS. 01-1	L04320	1		JEFFREY	MINING	PRODU	CTS .
											HE DRAWI	ING OR	IT
										CONTENTS	ARE TO		USED
										REPRODUCED WHOLE OR	•	ISCLOSED THOUT	PRIO
													FFRE
										MINING PROD	UCTS.		
DRAW	ING I	NO.				SHEET				PPROVAL N	UMBERS	THAT U	JSE
			704 4 0 6			NO, 8	THIS	S CHECK					
			561A67	/8		0			360	C-001			
DRAW	N		DA			R							
JWS				2/2/98		E							
						V							
CHEC	ΚED		DA	TE									
*4.	()	ALL THRE	ADED COV	ERS ARE	ESECURED	FRON	A LOOSEN	NING RY A	LOCKING S	CREW W	IRE	
''	()	OR OTHER		LIG THE	BECCKEL	TRO	LOODE	VIII O DI I	Locimios	CILLII, III.	iice,	
*5.	()			EOUIVAL	ENT DEVI	CES AF	RE PROVI	DED FOR	ALL BOLTS,	SCREWS.		
••	•	,								CLOSURES. A		S	
				AND STUD						elos eres. 1	LLL DOLI	ο.	
*6.	()		THE FASTE						N-PROOF			
•	`	,		RES ARE U									
				ELECTRICA			10 110	I LODEI (
7.	()					ESTIN	G PATHS	(FLANGES	AND COVE	RS)		
	`	,		OTH AND F							110)		
● 8.	()								E CLEARAN(CE.		
• 0.	`	,								SURES AND			
				ONDING CO					TIL LIVELC	DOUGLE THE			
*9.	1)							MACHINE	E AND OPER	ARLE.		
*lo.)								ECTRICAL (
10.	•	,		IAN HEADI		01 001(11	COL OI	Collini		Le i Mei Le	11100110		
*11.	1	`				KING GI AI	NDS) A	RE ASSE	MRI FD SC	THAT THE	CARLE		
11.	•	,		. 111111111		THE OP 1	\mathcal{L}		171 <i>0</i> 11111 11 11 11 11 11 11 11 11 11 11 11	, 11111 11111			

JACKET PENETRATES INTO THE ENCLOSURE AND WHEN TIGHTENED, A 1/8" MINIMUM

AND STUFFING BOXES ARE SECURED FROM LOOSENING BY A LOCKING SCREW, WIRE

ALL UNUSED LEAD ENTRANCES ARE CLOSED WITH METAL PLUGS WHICH ARE SECURED

OR OTHER MEANS.

12.

()

CLEARANCE REMAINS BETWEEN THE PACKING NUT AND STUFFING BOX. ALL PACKING NUTS

*(wEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 75-1914.

IN PLACE BY SPOT WELDING, BRAZING, OR EQUIVALENT.

TEST SHE		ITLE: MACHINE/E	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE SEE DRG.	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER 561A678	SHEET NO. 8	OF 12 SHEETS

JEF	FRE	Y MINING PRODUCTS	JEFFREY MINING PRODUCTS 274 EAST 1ST AVE. COLUMBUS. OHIO 43201 SHEET PART 36 MACHI:					THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION AND IS THE EXCLUSIVE PROPERTY OF JEFFREY MINING PRODUCTS. NEITHER THE DRAWING OR ITS CONTENTS ARE TO BE USED, REPRODUCE, OR DISCLOSED IN WHOLE OR PART, WITHOUT PRIOR WRITTEN CONSENT FROM JEFFREY MINING PRODUCTS.			
DRAWI	NG NO.			SHEET NO.			MACHIN			NUMBERS	THAT
		561A678		9	THI	S CHEC		-001			
DRAWN	ı	DATE		R			300	-001			
Jws		212198		E							
				v							
CHECK	ED	DATE									
● 134 *14. *15. *16. *17. ● 18. *19.	() () ()	CLAMPED IN PLACE PROTECTED FROM METAL TUMETAL TUMETAL CONDUIT IS INOT SUBJECT TO ABSISOLATED FROM HY ISOLATED FROM FURTHER RESISTANT IN "MSHA" MARKINGS OF HOSE CONDUIT IS MSHA MARKINGS APOR USBM 2G	MECHANIC MEING, OR NOT ACCE RASION FI DRAULIC EL LINES. F NOT ENC ON THE C. USED, IT	AL DAM TROUG EPTABLE ROM SH LINES A CLOSED ABLE. MUST B	IAGE BY HS. NO E. ARP CO AND HY IN HOS	POSITIC TE: FLEX RNERS O DRAULIC E CONDU	ON, FLAME IBLE OR THE REDGES. COMPONE JIT. THIS IS	HREADED I ENTS. S INDICATE BOTH ENDS	RIGID D BY		
		THE FOLLOWING CHE BEEN DISASSEMBLE BELIEVE A PROBLEM	D FOR W	HATEVE	ER REA	SON, OR	IF THERE				
20. 21.	()	PROVIDED WITH SHOELECTRICAL CONNEAND ARE INSULATED AND ARE SECURELY	ECTIONS I WHERE S	NSIDE T SPACE I	ΓHE Ele	ctrical El	NCLOSURE	S ARE SEC	URE (N	,	EN

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 75-1914.

TEST SH CHECKLIS		TLE: MACHIN	IE/ELECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE SEE DRG.	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER 561A678	SHEET NO. 9	OF 12 SHEETS

JEFFREY	MINING PRODUCTS	JEFFREY MIN 274 EAST 1ST COLUMBUS. (AVE		CTS		CONFIDENTIA THE EXCLU JEFFREY NEITHER TI CONTENTS REPRODUCED WHOLE OR	JSIVE PHE MINING HE DRAWIN ARE TO TO DITE PART, WITCH STREET PHE DITE PRESENT FROM THE PHE PHE PHE PHE PHE PHE PHE PHE PHE P	ROPERTY PRODUCT NG OR BE US SCLOSED	IS OF S . ITS ED, IN	
DRAWING NO.		SHEE NO.	-	PART			APPROVA	L NUMBE	ERS THA	T T	JSE
561	A678	,	10 1	THIS	CHECK	CLIST: 36C	:-001				
DRAWN Jws	DATE 2/2/98	R E v	,								
CHECKED	DATE										

E. <u>MISCELLANEOUS:</u>

- THE MACHINE IS EQUIPPED WITH AT LEAST ONE PORTABLE
 MULTIPURPOSE DRY CHEMICAL FIRE EXTINGUISHER TYPE (ABC) WITH A 10A:
 60B: C OR HIGHER RATING.
- 2. () FOR MACHINES EQUIPPED WITH A FIRE SUPPRESSION SYSTEM THE FIRE SUPPRESSION SYSTEM IS TESTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED INSPECTION AND MAINTENANCE PROGRAM AS REQUIRED BY THE NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY LISTING OR APPROVAL.
- *3. THE FIRE SUPPRESSION SYSTEM IS OPERABLE AS DETERMINED BY THE FOLLOWING CHECKS:
 - A. () NOTE GENERAL APPEARANCE OF SYSTEM COMPONENTS FOR MECHANICAL DAMAGE OR CORROSION.
 - B . () CHECK HOSE FITTINGS AND NOZZLES FOR MECHANICAL DAMAGE AND CUTS.
 - C . () NOZZLES SHALL BE PROTECTED AGAINST THE ENTRANCE OF FOREIGN MATERIALS SUCH AS MUD, COALDUST, OR ROCK DUST. CHECK NOZZLE OPENINGS; SLOT ON NOZZLE SHOULD BE CLOSED (CAPPED) WITH SILICONE GREASE OR COVERED m A PLASTIC BLOW OFF CAP.
 - D . () THE LEAD AND WIRE SEALS ARE INSTALLED ON ALL MANUAL ACTUATORS. (IF MISSING REFER TO FIRE SUPPRESSION SYSTEM MANUFACTURE'S INSPECTION MANUAL FOR INSPECTING ACTUATOR GAS CARTRIDGES.)

*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR, SECTION 75-1914.

TEST SHE		TLE: MACHINE/EI	LECTRICA	MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE SEE DRG.	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER 561A678	SHEET NO. 10	OF SHEETS

^{**}REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

JEFFREY	MINING PRODUCTS	JEFFREY MINI 274 EAST 1ST COLUMBUS. O	C AVE.			THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION AND IS THE EXCLUSIVE PROPERTY OF JEFFREY MINING PRODUCTS. NEITHER THE DRAWING OR ITS CONTENTS ARE TO BE USED, REPRODUCED, OR DISCLOSED IN WHOLE OR PART, WITHOUT PRIOR WRITTEN CONSENT FROM JEFFREY MINING PRODUCTS. APPROVAL NUMBERS THAT				
DRAWING NO.		SHEET	PAR	T 36	MACHINE	APPROVAL	NUMBE	RS THA	T 1	USE
		NO.	THIS	S CHEC	KLIST:					
561 A	A678	1	1		36C	-001				
DRAWN	DATE	R								
Jws	2/2/98	E								
		V								
CHECKED	DATE									

*4.	()	THE MAIN AIR PRESSURE GAUGE IN THE OPERATORS COMPARTMENT IS OPERABLE
*5.		THE MACHINE HAS AN MSHA PART 36 APPROVAL PLATE (12)** ATTACHED TO IT IN THE OPERATOR'S COMPARTMENT.
16.	()	THE ENGINE WILL NOT TURN OVER UNLESS THE DIRECTIONAL CONTROL SELECTOR IS IN THE NEUTRAL POSITION.

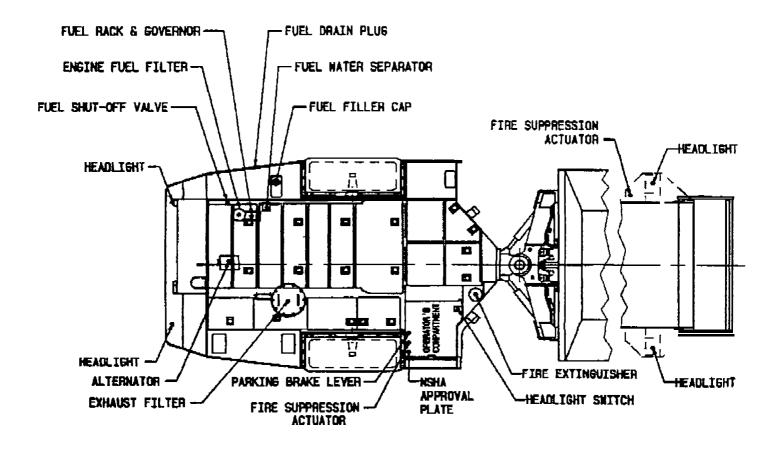
*(WEEKLY) DESIGNATES THOSE INSPECTION CHECKS THAT MUST BE PERFORMED DURING THE WEEKLY MAINTENANCE EXAMINATION IN ACCORDANCE WITH 30 CFR SECTION 75-1914.

	TEST SHEET TITLE: MACHINE/ELECTRICAL CHECKLIST				MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA			
DISTR. CODE	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 12	
SEE DRG.	В		L		561A678	11	SHEETS	

^{*7.} THE EXHAUST DIFFUSER IS CONNECTED TO THE DPF OUTLET,

^{* *}REFERENCED ITEMS SHOWN ON MACHINE LAYOUT DIAGRAM

JEFFREY MINING PRODUCTS		JEFFREY MINING PRODUCTS 274 EAST 1ST AVE. COLUMBUS. OHIO 43201 THE EXCLUSIVE PROPERTY O JEFFREY MINING PRODUCTS. NEITHER THE DRAWING OR IT CONTENTS ARE TO BE USED REPRODUCED, OR DISCLOSED I WHOLE OR PART, WITHOUT PRIOR WRITTEN CONSENT FROM JEFFREY MINING PRODUCTS.			
DRAWING NO.		SHEET PART 36 MACHINE APPROVAL NUMBERS THAT USE			
561	A678	THIS CHECKLIST: 36C-001			
DRAWN Jws	DATE 212198	R E V			
CHECKED	DATE				



TEST SHEET TITLE: MACHINE/ELECTRICAL CHECKLIST					MINE SAFETY & HEALTH ADMINISTRATION APPROVED PRINT. NO DEVIATION OR REVISION IS LEGAL UNTIL APPROVED BY MSHA		
DISTR. CODE	STD:	SPECIAL	ENG. SEC	PRINT LOCATION:	DRAWING NUMBER	SHEET NO.	OF 12
SEE DRG.	В		L		561A678	12	SHEETS