WORK ORDER - PREVENTIVE MAINTENANCE

305072

Sch Date: 5/28/2014

Work Order: 184006 Description: AMADA 028 ANNUAL INSPECTIONS

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Asset ID:

AMADA 024

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STRAIN RELIEF.
THERE ARE NOT MORE THAN 2 GROUNDS PER TERMINATION.
GROUNDING WIRES ARE SECURELY CONNECTED AND HAVE A RESISTANCE
OF 0.1 OHM OR LESS.
GROUNDING IS PRESENT ON CABINET WALLS, COMPONENT MOUNTING
PLATES, RACEWAYS, WIRE CONDUIT AND DOORS WITH COMPONENTS.
GOUND CONNECTIONS ARE RING OR FLANGED-SPADE WITH A STAR
WASHER. FLAT SPADE AND TONGUE CONNECTORS ARE NOT PERMITTED.
CIRCUIT PROTECTION DEVICES ARE WIRED, LABELED AND RATED TO NEC
REQUIREMENTS. IN-LINE FUSES ARE NOT ACCEPTABLE
THE MAN INTERNAL CIRCUIT BREAKER IS A CIRCUIT BREAKER AND NOT A
CIRCUIT PROTECTOR, AND MEETS MINIMUM REQUIREMENTS FOR AMPER-
INTERRUPT CAPACITY. A CIRCUIT PROTECTOR DOES NOT PROVIDE SHORT
CIRCUIT PROTECTION., ONLY OVER-CURRENT PROTECTION.
YES NO N/A ELECTRICAL REQUIREMENTS - EMOS & INTERLOCKS
TES NO N/A ELECTRICAL REQUIREMENTS - EMOS & INTERLOCKS
EACH EMO HAS BEEN TESTED AND SHUTS DOWN THE ENTIRE TOOL/
EQUIPMENT AND ALL PERIPHERALS (EXCEPT SCRUBBERS)
EMOS ARE LARGE, RED, MUSHROOM-SHAPED, LABELED EMERGENCY OFF
OR EMO ON 24 VOLTS OR LESS.
NO OTHER BUTTON IS RED AND LOOKS LIKE A EMO(ROBOT OR EQUIPMENT
STOP BUTTONS SHOULD BE BLUE OR YELLOW)
EMOS ARE IN A HIGHLY VISIBLE LOCATION AND WITHIN 10 FEET OF ELECTICAL
ACCESS ON THE EQUIPMENT.
IF AN EMO GUARD IS USED, IT ALLOWS THE EMO TO BE ACTIVATED BY A
"PALM SLAP".
EACH INTERLOCK HAS BEEN TESTED, FUNCTIONS PROPERLY AND SHUTS
DOWN THE EQUIPMENT AND ALL PERIPHERALS (EXCEPT SCRUBBERS).
CONVENIENCE OUTLETS ARE (A) UNDER EMO CONTROL. (B) GROUNDING
TYPE, (C) RATED NOT LESS THAN THE SUPPLY AMPERAGE, (D) PROPERLY
WIRED, AND (E) PROTECTED BY GFCIS IN WET OR POTENTIALLY DAMP AREA.
YES NO N/A ELECTRICAL REQUIREMENTS- ELECTRICAL GUARDING & SHIELDING
INTERNAL COMPONENTS WITH ENERGY LEVELS EXCEEDING 50 VOLTS AC
OR DC ARE SHIELDEED TO PREVENT INADVERTENT CONTACT.
ELECTRICAL ACCESS POINTS ARE COVERED WITH PANELS, LABELED WITH
MAX VOLTAGE, AND SECURED WITH SCREW OR KEY, OR INTERLOCKED.
SWITCHES, LAMP ASSEMBLIES AND LIGHTED SWITCHES ARE 120 VOLTS/24
VOLTS AND ARE LABELED AS TO THEIR FUNCTION.
EXPOSED PARTS AND MOUNTING HARDWARE ARE GROUNDED OR COVER-
ED BY AN INSULATING MATERIAL. IN-LINE SWITCHES ARE NOT PERMITTED.
ALL 1/4 & GREATER HORSEPOWER MOTORS (AC & DC) HAVE : (A) THE
MANUFACTUERS NAMEPLATE, (B) DIRECTION ARROWS, (C) WARNING LABEL
WHERE AUTOMATIC-RESET THERMAL-PROTECTION IS USED, (D) NO
EXPOSED MOVING PARTS UPON AUTOMATIC RESET, AND (E) PROPER WIRING
CAPACITORS THAT ARE GREATER THAN 1 INCH DIAMETER OR CAPABLE OF
STORING 4 JOULES ARE SHIELDED.
TRANSFORMERS OF 600 VOLTS OR LESS ARE GROUNDED, GUARDED AND
HAVE MANUF. NAMEPLATE. OVERCURRENT DEVICES RATED LESS THAN
125% OF THE TRANSFORMERS FULL LOAD CURRENT, PROTECT PRIMARY AND UNGROUNDED- SECONDARY CONDUCTORS.
AND UNGROUNDED-SECONDART CONDUCTORS.
YES NO N/A RADIATION REQUIREMENTS
TEG NO 1977 TO BUTTON REQUIREMENTS
NON-IRONIZING RADIATION (RF, MICROWAVES, UV, MAGNETIC FIELDS, ETC)
HAVE (A) APPROPRIATE FCC CERTIFICATION FOR RF GENERATORS. (B) BEEN
INSPECTED AND REGISTERED BY THE EHS & S RADIATION SAFETY OFFICER
RSO, (C) A YELLOW PHILIPS RADIATION LABEL ON THE GENERATOR, AND
(D) A HIGH VOLTAGE LABEL WHERE NECESSARY.
IONIZING RADIATION GENERATING EQUIPMENT HAS BEEN (A) REGISTERED
WITH PHILIPS RSO, (B) INSPECTED BY THE RSO IN THE COMPANY OF THE
EQUPMENT ENGINEER OR REP. AND (C) AFFIXED WITH A RADIATION
HAZARD REGISTRATION LABEL.
YES NO N/A MECHANICAL REQUIREMENTS
DOORS, SKINS, SHIELDS, COVERS, PANELS, ETC ARE IN A PLACE, CLOSED,
AND SECURED BY SCREW OR KEY, OR INTERLOCKED.
GUARDS OR SHIELDS ARE IN PLACE TO CONTAIN POTENTIAL FLYING MATERIAL

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BELTS, GEARS, SPROCKETS, DRIVES AND FANS ARE GUARDED AND LABELED	
AS PINCH OR CRUSH HAZARDS.	
GUARDS AND SHIELDS ARE SIZED PROPERLY FOR PROTECTION AND HAVE	
NO SHARP EDGES.	
EXPOSED HOLES IN THE FLOOR AROUND PLUMBING OR FIXTURES ARE	
COVERED IF THEIR DIAMETER IS GREATER THAN 1 INCH.	
SLIDING UNITS (DRAWERS, GATES, AND OTHER SLIDING CHASSIS) HAVE	
STOPS TO PREVENT DISENGAGEMENT.	
PARTS (DRAWERS, GATES, ETC) ARE MECHANICALLY STABLE WHEN AT	
MAXIMUM EXTENSION FOR SERVICING.	
HYDRAULIC AND PNEUMATIC EQUIPMENT (CHECK VALVES, BLEEDER PATHS,	
QUICK DUMP VALVES, ETC) ARE FAILSAFE.	
MATS, DOORS, LIGHT	
CURTAINS, ETC) HAVE BEEN TESTED, AND FUNCTION PROPERLY.	
HAND-HELD COMPRESSED AIR/NITROGEN BLOW-OFF GUNS DO NOT EXCEED	
30 PSI AND HAVE A SELF-REGULATING PRESSURE RELIEF NOZZLE.	
OUT OF A PARTITUDE A COLOR MEDICAL MOZZEE.	
YES NO N/A ROBOTIC REQUIREMENTS (ROBOTS WHICH MAY POSE A HAZARD TO BODY	
PARTS)	
A PHYSICAL BARRIER ENCLOSÉS THE ROBOT WORK ENVELOPE.	
THE ROBOT TEACH-PENDANT STOP= SWITCH HAS BEEN TESTED AND	
FUNCTIONS PROPERLY.	
AN EMO IS PRESENT ON THE CONTROL PANEL OUTSIDE THE ROBOT WORK	
ENVELOPE AND / OR ONE IS PRESENT INSIDE THE WORK ENVELOPE.	
ALL MOTION STOPS WHEN THE EMO AND ROBOT EMS (MUST BE A COLOR	
OTHER THAN RED) IS ACTIVATED.	
LARGE ROBOT IS FULLY ENCLOSED, OR HAS A MIN OF 28" SEPERATION	
FROM AND ROPED OR PAINTED VISUAL BARRIER.	
ROBOT ENCLOSURE IS INTERLOCKED, HAS PRESENCE-SENSING	
DEVICE, OR REQUIRES A TOOL TO GAIN ACCESS.	
LARGE ROBOT HAS AWARENESS DEVICE WITH AUDIBLE AND VISUAL SIGNS	
OF AN APPROACHING OR PRESENT ROBOTIC HAZARD.	
VEC. NO N/A CHEMCIAL AND CAS DECLIDEMNITS	
YES NO N/A CHEMCIAL AND GAS REQUIREMNTS	
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WORK ORDER - PREVENTIVE MAINTENANCE

Work Order: 184006		Description: AMADA 028 ANNUAL INSPECTIONS							
	TOXIC (GAS ALARM							
	PHOTO	HELIC (S) VERIFY SET POINTS							
	EQUIPN	ENT VACUUM SWITCH/SENSOR (TOXIC GASES)							
	CONVE	OR OR DRIVE ALARM							
	Т								
	CC	CORRECTIVE ACTION (WORK ORDER NUMBER AND COMPLETION DATE)							
Completion Informat	ion:		Due Count/Meter						
Date:	Supervisor:	Time On: Current Count:	0						
Shift:	Down Time:	Time Off: Current Meter:							