

ENERGY CONTROL PROCEDURE

The following Energy Control Procedure should be used for the equipment listed below.

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Approvals: FRANK REPROGLE Date Approved: _____

EQUIPMENT DESCRIPTION

GENERAL DESCRIPTION: Robot Welder (3086)

MANUFACTURER: Genesis

MODEL: DST SERIAL NUMBER: F43823

LOCATION: South / Broadway side of production 4th robot welder from exit door

CONTROLS

The following Controls, including "start/stop" buttons, toggle switches, emergency stop button, shut-off valves, etc. have been identified for this equipment.

Description of Control	Location on Equipment
control power on button	Front control panel
Main disconnect controller	Left of the control panel
On / off switch welder	Right front of cell
Main air disconnect	Rear / center inside cell
On / off button smoke collector	Right front of cell
Gas ball valve	Right rear or cell
Emergency stop buttons	Front control panel and teach pendant

ENERGY SOURCES/ISOLATION DEVICES

The following Energy Sources and Energy Isolation Devices supporting this equipment have been identified.

Energy Types: (CHECK ALL THOSE APPLICABLE)

Electrical	x
Pneumatic	x
Hydraulic	
Steam	
Chemical	
Thermal	
“Stored” Energy	
Other	

Sources / Devices	Location	Type of Lock/Tag Needed
Main disconnect	Front controller	Standard lock and tag
Welder breaker	Broadway wall behind welders	Breaker lockout standard lock and tag
Air disconnect	Inside rear center of cell	Standard lock and tag
Gas ball valve	Right rear of cell	Lockout cover standard lock and tag
Smoke collector breaker	Broadway wall behind welders	Breaker lockout standard lock and tag

SHUTDOWN PROCEDURES

The steps listed below must be followed to properly shut down and de-energize this equipment.
To verify the effectiveness of each step follow the instructions in the "Verification" column.

Lock-Out/Tag-Out

Procedure	Device used	How to verify
NOTIFY "AFFECTED" AND "OTHER" EMPLOYEES OF IMPENDING EQUIPMENT SHUTDOWN		
Turn off main controller	Standard lock and tag	Try to turn on controller w / on / off button
Push air shut off	Standard lock and tag	Read gauge, check airline
Turn welder breaker off	Breaker lock standard lock and tag	Try to turn on welder
Turn smoke collector breaker off	Breaker lock, standard lock and tag	Try on button for collector
Turn gas ball valve off	Ball valve cover standard lock and tag	Check gauge and line

RELEASE AND RESTART PROCEDURES

The steps listed below must be followed to properly release this equipment from a locked or tagged out condition and restart it.

<u>Procedure</u>	<u>Location</u>
Inspect work area and remove tools and other non-essential items.	
Inspect equipment and components to make sure it is intact and ready to run.	
Notify "affected" and "other" employees in the area of impending restart and make sure they are safely positioned away from the equipment	
Turn on main disconnect	Front controller
Turn on welder breaker	480v breaker panel behind robot cells
Turn on air disconnect	Inside rear center of cell
Turn on gas valve	Right rear of cell
Turn on smoke collector breaker	480v breaker panel behind robot cells