

APPENDIX 8.2

OSU ENERGY CONTROL PROCEDURE CHECKLIST

Equipment ID:	Mfgr:		Model No:		ID No:	
Equipment Location(s):			Date Performed:			
Task(s) to be Performed:						
Name of Person Performing Assessment:						

A. ENERGY FORM(S): (Check all that apply)

<input type="checkbox"/> 1. <u>Electrical</u> <input type="checkbox"/> a. Low Voltage (50-600V) <input type="checkbox"/> b. High Voltage (>600V) <input type="checkbox"/> 2. <u>Chemical/Explosion</u> , pressure, extreme heat, fire, corrosive, reactive, oxidizer, toxic <input type="checkbox"/> 3. <u>Pressure</u> <input type="checkbox"/> a. Pneumatic <input type="checkbox"/> b. Hydraulic <input type="checkbox"/> 4. <u>Vacuum</u>	<input type="checkbox"/> 5. <u>Mechanical</u> – capable of crushing, pinching, cutting, snagging, striking. <input type="checkbox"/> 6. <u>Thermal</u> – High Temperature, Surface temperature, Hot Liquids, steam <input type="checkbox"/> 7. <u>Thermal</u> – Cryogenic – contact with super cold surface or with cryogenic liquid. <input type="checkbox"/> 8. <u>Ionizing Radiation</u>	<input type="checkbox"/> 9. <u>Non-Ionizing Radiation</u> <input type="checkbox"/> a. Ultraviolet <input type="checkbox"/> b. Infrared <input type="checkbox"/> c. Rf/Microwave <input type="checkbox"/> d. Laser <input type="checkbox"/> e. Magnetic Fields <input type="checkbox"/> 10. <u>Stored</u> – Flywheels, springs, differences in elevation, elevated parts that could drop, capacitors, batteries.
---	--	--

B. BASIC PROCEDURES

<p>Lockout Procedure:</p> <input type="checkbox"/> 1. Notify all affected personnel of LOTO. <input type="checkbox"/> 2. Turn off power at disconnect points listed in Column C.1. <input type="checkbox"/> 3. LOTO each energy control point listed in Column C.1. <input type="checkbox"/> 4. Dissipate/disconnect any stored energy. See Column C.2. { <input type="checkbox"/> N/A} <input type="checkbox"/> 5. Block any mechanical parts, remove any mechanical links. Lock blocking in place. { <input type="checkbox"/> N/A} (NOTE: Two physical blocks required to secure any gas/liquid line) <input type="checkbox"/> 6. Verify personnel are clear of hazards. <input type="checkbox"/> 7. Verify no hazardous energy remains. Use circuit tester/meter if electrical energy is involved. See Column C.4. <input type="checkbox"/> 8. Attempt to re-start machinery or re-energize equipment through normal means. NOTE: Return switch back to OFF position. <input type="checkbox"/> 9. Perform required work.	<p>Procedure to Return Device to Operation:</p> <input type="checkbox"/> 10. Verify Danger Zone is clear of equipment, workers, tools, and test equipment. <input type="checkbox"/> 11. Unlock and remove any blocking devices; remove linkages. <input type="checkbox"/> 12. Reposition any safety devices. <input type="checkbox"/> 13. Warn workers to stay clear of area. <input type="checkbox"/> 14. Remove all locks and tags from energy control points. <input type="checkbox"/> 15. Verify area is clear of personnel. <input type="checkbox"/> 16. Re-start/re-energize the equipment. <input type="checkbox"/> 17. Notify all affected personnel and other persons that the lockout has been cleared.
--	---

C. SPECIFIC PROCEDURES

Hazardous Energy (Specify form & Values, including names of chemicals)	C.1 Specific Lockout Locations	C.2 Dissipate Stored Energy At These Points	C.3 Block These Parts/Remove Linkages	C.4 Verify Residual Energy By These Methods

SHIFT CHANGES: If this procedure lasts beyond one work shift, the relief crew will apply their locks and tags before the departing shift removes their locks and tags. **If this does not happen, the new crew must start with a new ECP.**