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|-----------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|
| Job: Disconnecting DP Cell                                                                                            |                            | Date: April 30, 1960           |
| JOBS SAFETY ANALYSIS TRAINING GUIDE                                                                                   | Title of Man Who Does Job: | Analysis By: <i>Wm. D. Foy</i> |
| Department: Instrument                                                                                                | Section: S.C.P.            | Reviewed By: <i>Wm. D. Foy</i> |
| Required and/or Recommended Personal Protective Equipment: Safety Glasses, Safety Gloves, Face Shield and Rubber Suit |                            | Approved By: <i>Wm. D. Foy</i> |

| SEQUENCE OF BASIC JOB STEPS                                         | POTENTIAL ACCIDENTS OR HAZARDS                               | RECOMMENDED SAFE JOB PROCEDURE                                                                                         |
|---------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1) Notify production supervisor that controller is to be worked on. | 1) Operation may be unaware of the work being done.          | 1) Make a safety note on recorder chart that $\Delta$ /P is being worked on. Make sure production people are informed. |
| 2) Close block valves on pipe flanges.                              | 2) Valves can be leaking - through hot valves and leaks.     | 2) Check with a calibrated gauge for pressure drop. Wear gloves and safety glasses.                                    |
| 3) Open wide, then close bypass valve on $\Delta$ /P manifold.      | 3) Hot valves and leaks.                                     | 3) Wear gloves and safety glasses.                                                                                     |
| 4) Vent the $\Delta$ /P on both sides.                              | 4) Venting (acid) from both compartments of the $\Delta$ /P. | 4) Face shield, rubber gloves, rubber suit and container to catch falling material.                                    |
| 5) Break off insulation from $\Delta$ /P.                           | 5) Dust, falling material and acid in insulation.            | 5) Face shield, rubber gloves and gear.                                                                                |
| 6) Shut off steam tracer to cell and disconnect.                    | 6) Steam tracers are very hot and may have leaks.            | 6) Gloves and safety glasses.                                                                                          |
| 7) Disconnect $\Delta$ /P from line.                                | 7) Remaining (acid) material in $\Delta$ /P compartments.    | 7) Wear safety gear.                                                                                                   |

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