

BDP Project Description:**Mobile Bay – ESD System Installation*****End User / Location:*****Mobile Bay Processing Partners, Coden, Alabama*****Client / Location:*****Duke Energy Field Services, Houston, Texas*****Control System Platform:*****Siemens Fail-Safe S7-400 PLC
with redundant Modbus interface to existing Foxboro I/A Series DCS*****BDP Scope:*****Full-scope Emergency Shutdown System design and installation to add another layer of protection for critical safety monitoring and total plant shutdown.*****BDP Services:*****Detailed Design & Configuration:**

- Instrument Index development.
- Equipment procurement.
- Custom panel design and assembly.
- Safety logic design and implementation.
- ESD System integration and shop test.
- Modbus configuration for serial interface to DCS.
- DCS display configuration and test.

Installation and Commissioning:

- Craft labor and materials for ESD instrument installations.
- ESD system panel installation with fiber communication networks.
- Engineering and craft support for loop check and commissioning.
- Plant drawing updates to support MOC procedures.
- Operator training and ESD verification tests.

Accomplishments:**Independent ESD system architecture designed to interface with existing field wiring for shutdown initiators and solenoid valves.**