# Sandy Point Refinery

## Safe Work Permit

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| **Permit No:** | SWP-2024-1031-001 |
| **Work Description:** | Preventative Maintenance on R-901 CSTR Reactor |
| **Location:** | Biodiesel Unit |
| **Date:** | October 31, 2024 |
| **Start Time:** | 10:00 AM |
| **End Time:** | 2:00 PM |

## Personal Protective Equipment (PPE)

- ☑ Hard hat
- ☑ Safety glasses
- ☑ Steel-toed boots
- ☐ Fire-resistant coveralls
- ☑ Nitrile gloves
- ☑ Respiratory protection (half-mask respirator with organic vapor cartridges)

## Safety Checks and Precautions

- ☑ Lockout/Tagout procedures followed for R-901 and associated equipment
- ☑ Area barricaded and Warning signs posted
- ☑ Gas testing conducted for LEL, O2, H2S, and other hazards
- ☑ Fire extinguishers and spill kits readily available
- ☐ Emergency eyewash and safety shower inspected and operational

## Approvals

| Role | Name | Signature |
|---|---|---|
| Job Supervisor | Maria Rodriguez | |
| Safety Officer | John Smith | |
| Operations Manager | Sarah Wilson | |

## Standard Controls

- ☑ Follow all safety procedures and use required PPE
- ☑ Attend toolbox talk and review job safety analysis (JSA)
- ☑ Keep work area clean and free of trip hazards
- ☑ Use proper tools and equipment for the job
- ☑ Report any unsafe conditions or incidents immediately

## Job Hazards

- ☑ Exposure to hazardous chemicals (methanol, triglycerides)
- ☑ Potential for chemical splashes or spills
- ☑ Pinch points and crush hazards from equipment
- ☑ Slip/trip hazards from tools and equipment
- ☐ Working at heights (ladders or platforms)
- ☑ Noise hazards from equipment operation

## Equipment Pre-Work

- ☑ Verify Lockout/Tagout of R-901 and associated equipment
- ☑ Isolate and bleed off any residual pressure
- ☑ Purge and flush system with inert gas as needed
- ☑ Inspect and test equipment for leaks or defects
- ☑ Stage tools, materials, and spare parts needed for maintenance

## Area Preparation

- ☑ Clear work area of any obstructions or tripping hazards
- ☑ Set up barricades and warning signs around work zone
- ☑ Ensure adequate lighting and ventilation in the work area
- ☑ Establish designated areas for tool staging and waste collection
- ☐ Review emergency evacuation routes and muster points