BECHT INTEGRITY PRACTICES



Knowledge-on-Demand Network

DOCUMENT SUMMARY

Provides a robust mechanical integrity procedural framework to help meet regulatory compliance and optimize operational efficiency at refineries and other processing facilities. Developed by seasoned industry experts, these procedures are designed to help meet the stringent requirements of OSHA's 1910.119 Part J regulation, offering a practical and effective solution for your mechanical integrity needs.

WHY CHOOSE BECHT'S INTEGRITY PRACTICES?

- 1. Regulatory Compliance: Encompass a wide range of essential documents, from general mechanical integrity guidelines to specialized nondestructive examination (NDE) procedures. This ensures that the necessary aspects of your mechanical integrity program are documented and being consistently applied throughout your organization.
- 2. **Easy Implementation**: Crafted to be both detailed and adaptable. With minimal effort, your team can map these standards to your site's specific roles and responsibilities, providing a seamless integration into your existing processes. This "out-of-the-box" approach saves time and resources while ensuring compliance and efficiency.
- 3. **Expertly Developed**: Leveraging the collective experience of former owner-operators, our practices reflect industry best practices and insights. Whether you're dealing with pressure vessel inspections or complex damage mechanism reviews, our documents offer clear, actionable guidance tailored to real-world applications.
- 4. **Scalable Solutions**: Our integrity practices are designed to support both large and small sites. Larger facilities can benefit from the structured guidance to enhance their existing procedures, while smaller sites can adopt our comprehensive standards to ensure thorough and compliant operations.
- 5. **Specialized Programs**: In addition to general guidelines, we provide targeted documents for special emphasis programs, such as small bore piping inspections and turnaround scope development. These specialized resources help you address specific challenges with confidence and expertise.



Primary User
Inspector
Fixed Equipment Engineer



Secondary User
Reliability Engineer
Operations Managment
Turnaround Management

Take the first step towards safer, more efficient, and compliant operations.

BIP.0.0	Fixed Equipment Integrity General Expectations	BIP.1.10	Small Bore Piping, Deadleg, and Dummy Leg Inspection
BIP.0.1	Deficiency Resolution for Fixed Equipment	BIP.1.11	Shell and Tube Heat Exchanger
BIP.0.2	Fixed Equipment Inspection Intervals	BIP.1.12	Air-Cooled Heat Exchanger Inspection
BIP.0.3	Fixed Equipment Integrity Metrics	BIP.2.1	Inspector Certification and Contractor Requirements
BIP.0.4	Asset Integrity Turnaround Scope Development and Deferral	BIP.2.2	Ultrasonic Thickness Gauging
BIP.1.1	Pressure Equipment Inspection	BIP.2.4	Penetrant Testing
BIP.1.2	Piping Systems Inspection	BIP.2.5	General Visual Examination
BIP.1.3	Heat Exchanger Tube Inspection	BIP.3.1	Temporary Repairs
BIP.1.4	Injection and Mixing Point Inspection	BIP.3.2	Pressure Testing
BIP.1.5	Minimum Thickness Requirements	BIP.3.3	Damage Mechanism Reviews
BIP.1.6	CML Allocation for Piping and Fixed Equipment	BIP.3.4	Integrity Operating Windows
BIP.1.7	Atmospheric Storage Tank Inspection	BIP.3.5	Environmental Cracking
BIP.1.8	CUI Inspection	BIP.3.6	Wet H2S Cracking
BIP.1.9	Soil to Air Interface Inspection	BIP.3.7	High Temperature Hydrogen Attack