

ADV Integrity Materials Engineering

MCAR: Pipeline Materials and Welding Lifecycle

Through the MCAR (Manufacturing, Construction, Assessment, and Repair): Pipeline Materials and Welding Lifecycle service structure, ADV Integrity will become your trusted ally for providing accurate and verifiable resources and expertise related to materials engineering. Using our thorough and continuous consultation and analysis, we assure superior results and reduced costs throughout all stages of the lifecycle.



ADV Integrity, Inc.

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MCAR

ADV Integrity's MCAR: Pipeline Materials and Welding Lifecycle

Manufacturing

The foundation of reliable asset integrity begins with optimal material selection and manufacturing. At ADV Integrity, our experienced team of engineers can offer expertise throughout the pipeline manufacturing process, perform quality audits, and provide selection consultations.

- Pipeline material manufacturing and mill audits
- Mill Test Report (MTR) reviews
- Material selection consultations

Construction

Throughout the construction phase, we will guide you through welding and coating qualification to ensure an optimized and fully compliant solution. Our engineers will provide you with valuable insight to ensure you are making cost-effective construction decisions that will prevent potential failures or repairs.

- Welding procedure optimization
- Welding process/consumables selection
- WPS and PQR qualification
- New construction girth weld ECA development
- Coating selection and qualification

Repair

If the need for repair or replacement arises, our staff of subject matter experts can provide guidance for choosing the most appropriate and innovative methods for sustaining the design life of your assets. Our consultations are focused in mitigating your risk and reducing cost inefficiencies.

We are dedicated to providing continual assurance and support related to your asset integrity, including working with you to make the necessary reparations required for long-term asset sustainability.

Assessment

At ADV Integrity, our metallurgical experts can perform rigorous examinations and analyses to assess the safety and reliability of your assets. Our full-scale testing and numerical modeling capabilities complement our metallurgical expertise to produce complete analysis for making informed decisions regarding your asset's integrity.

- Metallurgical assessments
- Failure analysis
- Non-destructive examination (NDE) method consultations

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