

ENGINEERING ASSESSMENT FORM: REGULATED PIPELINE

A system profile Engineering Assessment Form (EAF) is designed to provide a complete repair calculation package and streamline the process of performing repairs during pipeline inspection and repair projects. The system profile EAF is designed to address defects which result in external wall loss only. Once the EAF is completed, NRI's Engineers will provide a complete and comprehensive calculation package specific to your pipeline specifications using the appropriate Engineered Composite Repair (ECR) system. ASME PCC-2, Article 4.1 calculations are performed to determine the minimum ECR thickness and overlap length for fully code-compliant designs.

Assessment Parameters

An EAF should be completed and processed to ensure a suitable ECR system is installed.

- Mechanical defects should always be evaluated individually.
- The repair of dents is not covered under the system profile calculation package and requires special attention.
- Gouges, scratches, and corrosion can be processed under the system profile calculation package if the wall loss is measured after the required grinding (IAW Article 3.4).
- Abrasive blasting in accordance with SSPC-SP10 "NACE 2 Near-White Blast Cleaning" is preferred, however, at a minimum, surface preparation shall be in accordance with SSPC-SP1 "Solvent Cleaning" and SSPC-SP11 "Power Tool Cleaning to Bare Metal" with a 1-3 mil surface roughness (25-76 microns) minimum.
- To ensure accuracy, complete EAF in its entirety. Include pictures when available.
- Incomplete forms will be returned for completion.

CONTACT INFORMATION	
ASSET OWNER:	DISTRIBUTOR:
Contact:	Contact:
City: State:	City: State:
Phone:	Phone:
Email:	Email:
Location of line:	
Line ID#:	
REQUIRED INFORMATION	
OD:	Operating Temperature:
SMYS:	Design Temperature:
Original Wall:	Classification Location:
Max Wall Loss %:	Liquid or Gas:
Size of Defect:	Liquid Lines # of PSI cycles per year:
Operating PSI:	Upper Cycles PSI:
MAOP:	Lower Cycles PSI:
Design PSI:	Expected Future Conditions:
Describe any conditions that may affect the installation:	

Send completed form to customerservice@neptuneresearch.com

Please include photos of each step of the installation when submitting your QC checklist to NRI.