

ENGINEERING ASSESSMENT FORM/工程项目评估表

To ensure accuracy, complete EAF in its entirety. Worst case will be assumed for any fields left blank. Include pictures when available. **
 /为了确保准确，请完整填写该“工程项目评估表”。同时，尽可能将现场情况描述清楚，提供包括照片等详细信息。

CONTACT INFORMATION/联系人信息			
ASSET OWNER/业主: []	SERVICE CONTRACTOR/服务承包商: []	EAF COMPLETED BY/表格填写人: []	
City/城市: [] State/国家: []	City/城市: [] State/国家: []	Phone/电话: []	
Contact/联系人: []	Contact/联系人: []	Email/邮箱: []	
Phone/电话: []	Phone/电话: []	NRI Distributor /NRI 代理商: (company name/公司名称) ZILI SERVICE	
Email/邮箱: []	Email/邮箱: []		
Location of line/管线位置: []	Job#/工作编号: []		
Line ID#/管线编号: []	Scheduled start date/计划开工时间: []		
REQUIRED INFORMATION/必要信息			
PREFERENCES/选项	Calculation package requirement /数据计算需要满足的标准: <input type="checkbox"/> ASME PCC-2 compliant <input type="checkbox"/> Non-ASME PCC-2, engineered <input type="checkbox"/> ISO 24817 compliant <input type="checkbox"/> Best effort recommendation/其它标准	Preferred composite system, if within scope /首选复合材料修复系统: <input type="checkbox"/> Syntho-Glass XT <input type="checkbox"/> Viper-Skin <input type="checkbox"/> Thermo-Wrap <input type="checkbox"/> Thermo-Wrap Inspectable (2X thick) <input type="checkbox"/> Thermo-Wrap CF <input type="checkbox"/> No preference/无要求	Preferred filler, if within scope /首选填充材料: <input type="checkbox"/> Syntho-Steel <input type="checkbox"/> Syntho-Poxy HC <input type="checkbox"/> Thermo-Fill <input type="checkbox"/> Thermo-Fill HT <input type="checkbox"/> No preference/无要求
	PIPE INFO/管道信息	Nominal pipe size (OD) /管道公称直径 (外径): [] Nominal wall thickness /公称壁厚: [] Geometry/结构, 形状: <input type="checkbox"/> Straight/直管 <input type="checkbox"/> Tee/三通 <input type="checkbox"/> Elbow/弯头	PRESSURE/压力 Design/设计压力: [] Operating/工作压力: [] TEMPERATURE/温度 Design/设计温度: [] Operating/工作温度: [] Skin temperature during installation /施工过程中管道表面温度: []

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DEFECT INFO/缺陷信息	Axial length of defect /缺陷轴向长度: <input type="text"/> Circumferential width of defect /缺陷周向宽度: <input type="text"/> Desired repair length /需要修复的管线长度: <input type="text"/> Intended service life of repair /预估修复后使用寿命: <input type="text"/>	<input type="checkbox"/> External corrosion / damage/外部腐蚀/损伤 Wall loss/壁厚损失比例: <input type="text"/> % <OR/> 厚度 <input type="text"/> "英寸 <input type="checkbox"/> Internal corrosion / damage/内部腐蚀/损伤 Contents of pipe/介质: <input type="text"/> Concentration/密度: <input type="text"/> Is the line leaking/管道是否泄漏: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, dimensions of stop gap/如果泄漏, 需堵漏的尺寸: <input type="text"/> (Example: 3/8" wide stainless banding w/ 1"x1" rubber patch /例如: 3/8 宽的不锈钢带压一块 1"x1"的橡胶垫)
ADD'L INFO/附加信息	Refinery Specific/炼油厂专用: Allowable stress/许用应力: <input type="text"/> (If unknown, 15ksi will be used /如果不清楚, 则采用 103MPa)	Pipeline Specific/管道特性: SMYS of pipe/最小屈服强度: <input type="checkbox"/> 80k/550MPa <input type="checkbox"/> 75k/520MPa <input type="checkbox"/> 72k/500MPa <input type="checkbox"/> 70k/480MPa <input type="checkbox"/> 65k/450MPa <input type="checkbox"/> 60 k/410MPa <input type="checkbox"/> 56k/385MPa <input type="checkbox"/> 52k/360MPa <input type="checkbox"/> 42k/290MPa <input type="checkbox"/> 35k/240MPa <input type="checkbox"/> 30k/205MPa Repair location classification factor/修复点的分类系数: <input type="checkbox"/> 0.72 <input type="checkbox"/> 0.65 <input type="checkbox"/> 0.6 <input type="checkbox"/> 0.5 <input type="checkbox"/> 0.4 Liquid Lines/液体管线: #of pressure cycles per year/每年介质压力波动次数: <input type="text"/> Max cycle pressure/波动时最大压力: <input type="text"/> Min cycle pressure/波动时最小压力: <input type="text"/>
Describe any conditions that may affect the installation/其它可能影响施工的因素: <input type="text"/>		

SURFACE PREPARATION/表面预处理

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. If the condition of the pipe, including defect area, does not allow for SSPC-SP11, please explain:

/表面处理最好遵从 SSPC-SP10 的 "NACE 2 近白喷砂清理" 标准, 如果不具备条件, 最低要求至少应达到 SSPC-SP1 的 "溶剂清洗" 和 SSPC-SP11 "电动工具清理裸露的金属" 的要求 (表面粗糙度 Ra25~Ra75)。如果管道的状况, 包括缺陷面积, 不符合 SSPC-SP11 标准的要求时, 请说明情况:

**** Include photos and / or sketch when possible ** Use page 2 if multiple defects are present ****
/最好提供相关照片或草图, 如果为多重缺陷, 请使用下一页进行描述。

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MULTIPLE DEFECT INFORMATION/多重缺陷信息

Defect # /缺陷编号	Location (o'clock) / 位置	Linear Length Available /直管长度	Distance from Weld /距离焊缝的距 离 (长 X 宽)	Size of Defect (Length x Width) /缺陷大小 (长 X 宽)	Wall Loss/ 壁厚损失	Cause of Defect (Mechanical, Int/Ext Corrosion) / 产生缺陷原因 (机械、内/外腐蚀)	Type of Defect (Corrosion, Dent, Gouge) / 缺陷类型 (腐蚀、凹坑、划伤)	Leaking or Non-Leaking/ 是否泄漏	Blow, Spray, Drip/ 喷射、滴 漏、渗漏

Identify each defect by placing the corresponding Defect # on sketch below/在下图编号标注每个缺陷。

** Please specify distance between defects. **/注明缺陷之间的距离。

** Include pictures when available. **/如果条件允许的话，请提供相关图片。



INSTALLATION TOOLS/施工工具

Would you like any of the following surface prep, or application tools shipped with the composite repair materials?

/当你购买我们的复合材料时，还需要以下施工工具吗？

- Rough Boy Sparkless Grinder/经过认证的防爆打磨工具: Yes No Purchase/购买 Rent/租赁
Estimated rental days/预估租赁时间:
- MBX Bristle Blaster®/钢丝轮-表面打磨气动/电动工具: Yes No
- Extra Bristle Blaster belts/抛光带: Yes No Quantity /数量:
- Testex Press-O-Film® Surface Profile Gage/粗糙度测量用胶带: Yes No
- NRI Applicator ToolBox/NRI 复合材料工具箱: Yes No
- Resinator (resin saturation machine)/树脂浸渍机: Yes No
- ResBoxes/树脂浸渍盘: Yes No Size: 6" 12" Quantity/数量:
- Fire proofing/防火层: Yes No

Signature/签字:

Date/日期:

Neptune Research, the Manufacturer of Syntho-Glass®XT (XT), Viper-Skin™ (VS), Thermo-Wrap™ (THW), Thermo-Wrap™ Inspectable (THWI), and Thermo-Wrap™MCF (THWCF) will replace at no charge to the purchaser any product proved to be defective. Responsibility of the Manufacturer and the Distributor is limited to replacement of the product only. Neither the Manufacturer nor the Distributor shall be liable for consequential or incidental damage or loss of any kind as they do not have any control over the conditions under which these products may be used or over the methods of application. Users should test the product for their particular need and suitability. Users should consult with the Manufacturer or the Distributor for all proposed repairs using the XT, VS, THW and/or THWCF Systems. Written procedures for specific repairs are available upon request from the Manufacturer or Distributor. All proposed repairs to Pipeline Systems using the XT, VS, THW and/or THWCF Systems must be installed or supervised by Certified Technicians.

/NRI 公司, Syntho-Glass®XT (XT), Viper-Skin™ (VS), Thermo-Wrap™ (THW), Thermo-Wrap™ Inspectable (THWI), and Thermo-Wrap™MCF (THWCF)的制造商将免费替换用户买到的被证明是有缺陷的产品。制造商和经销商的责任仅限于产品的更换。制造商和经销商不承担任何相关的或附带的损害和损失，因为他们无法对现场的状况做到完全掌控，这些产品可能被用于不当的现场情况，以及采用了不当的使用方法。使用者应当测试产品及其工况的适用性以确认是否能满足他们的特定需求。使用者应当与制造商或者经销商协商所有提出使用 XT, VS, THW 或者 THWCF 修复系统的修理计划。具体维修的书面程序，可根据制造商或经销商的要求提供。所有管道修复项目在使用 XT, VS, THW 或者 THWCF 修复系统时，产品必须安装好或现场有通过 NRI 认证的技术人员监督负责。