

PROJECT DEFINITION

Project Title	A Guide to In-Line Inspection — Technology & Providers		
		Start Date	01.04.2005
		Delivery Date	31.08.2005
<p>Objectives:</p> <p>Intelligent in-line inspection (ILI) tools are routinely involved in an overall integrity management program. They can be used in a variety of different applications, ranging from simple cleaning to sophisticated non-destructive evaluation (NDE) of pipelines. Pipeline conditions such as valves, restrictions, and bends, as well as access to the pipe must be evaluated to determine the feasibility of performing an ILI. ILI data can provide information on pipeline anomalies that may affect the integrity of the pipeline, but the accuracy of measurement of individual tools varies massively. In certain cases the accuracy is very shape dependent so that a tool may determine the size and shape of one area of metal-loss very accurately whereas in another area the accuracy can be very poor.</p> <p>This Report will provide a guide to intelligent in-line inspection for use by THE COMPANYY.</p>			
<p>Relevance (Business / Asset): <i>Who / what will benefit from the project?</i></p> <p>This package of work will provide THE COMPANYY with guidance through all stages of the intelligent in-line inspection process, from selection of the most relevant inspection tool to how to interpret the results and how to determine when to schedule the next inspection.</p>			
<p>Scope of Work / Execution Plan:</p> <p>The aim of this work is to provide a detailed guide to the use of ILI by THE COMPANYY Asset Groups. This would include:</p> <ul style="list-style-type: none"> • Details of the underlying technologies currently used for ILI, including alternative approaches to the basic physical problems. • Comparison of benefits and problems arising from different technologies. • Discussion of data interpretation and its pitfalls. • The extent to which particular threats to integrity can be addressed with the different technologies. • How to assess if a pipeline is suitable for in-line inspection. • Use of ILI in an integrity management programme, including approaches to determining suitable re-inspection intervals by means of quantified reliability analysis. • A directory of companies providing ILI services, including an assessment of services provided by the major players. 			
<p>Input (data required):</p> <p>Information currently residing in-house as a result of Advantica involvement in a number of studies of in-line inspection results.</p> <p>Information on the specifications of currently available intelligent in-line inspection tools.</p>			
<p>Deliverables:</p> <p>The Guide would be delivered as bound paper versions and electronically (PDF) on CDs.</p> <p>The work would consist of the following milestones</p> <p>Milestone 1. Description of the technologies used in ILI</p> <p>Milestone 2. Analysing the results of an ILI</p> <p>Milestone 3. Selecting the most appropriate ILI for given threats (including suitability of pipeline for ILI)</p> <p>Milestone 4. The use of ILI data in an Integrity Management Program</p> <p>Milestone 5. Guide to service providers</p>			

Milestone	Date	Cost
1	May-05	
2	Jun-05	
3	Jul-05	
4	August-05	
5	August-05	
	Total	

Submitted by:**Approved by:**