**Project Profile** 

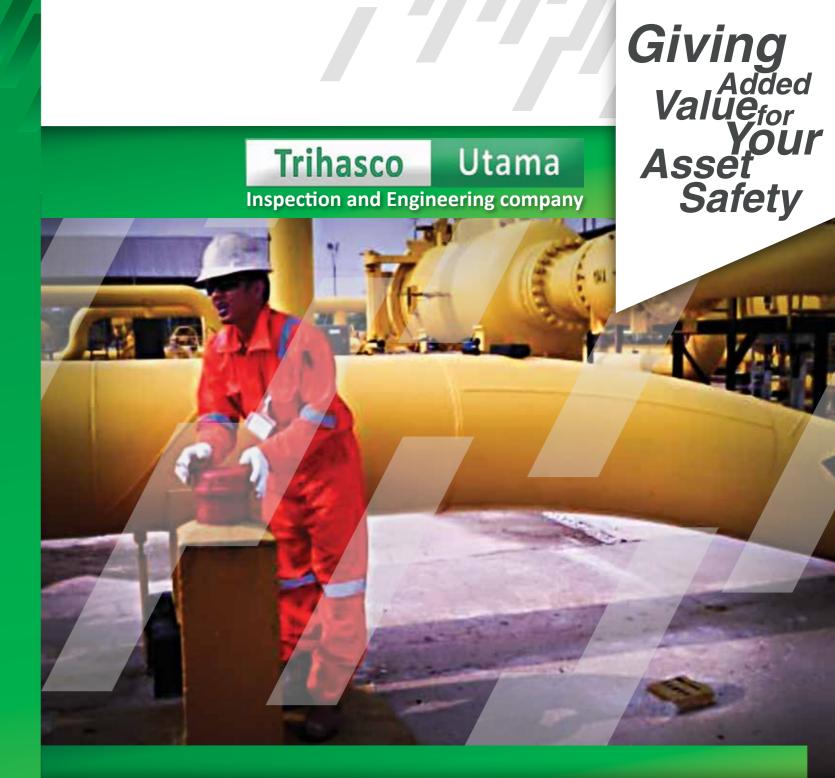


# **Contact:**

Wisma PMI 3<sup>rd</sup> & 4<sup>th</sup> Floor
Jl. Wijaya I No. 63 Kebayoran Baru
Jakarta Selatan 12170

\* Move to new building an April 2015
Graha Trihasco
Jln. Puri Sakti I No. 30 Cipete Selatan
(Antasari) Jakarta Selatan 12410
INDONESIA

Telp:+62 21 720410 Fax:+62 21 725558 nfo@trihasco.com



RISK ASSESSMENT FOR RE-CERTIFICATION OF 28" GAS PIPELINE

## RISK ASSESSMENT FOR RE-CERTIFICATION OF 28" GAS PIPELINE

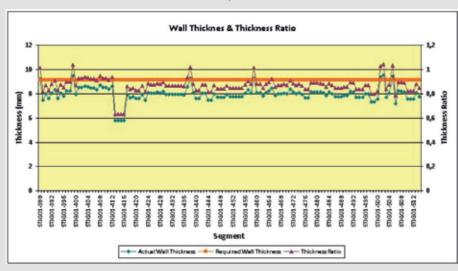
According to Indonesian government regulation which written in Indonesian Directorate General of Oil and Gas (Ditjen Migas) decree No 84.K/38/DJM/1998, it is mandatory for Oil and Gas Company to have operating permission or held re-certification every three years for its static equipment including pipeline.

For existing pipeline, risk assessment is part of work to do to ensure that the pipeline still able to be operated safely or not.

PT. Trihasco Utama has appointed by several Oil and Gas Company to conduct risk assessment for pipeline certification. One of our experience is risk assessment for certification of 28" gas pipeline from Grissik to Sakernan (136.000 meters)

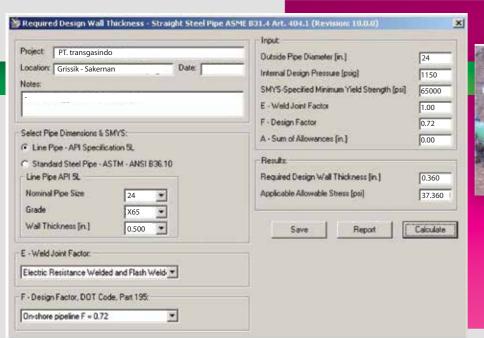
### Scope of work:

- 1.Independent analysis/review of design and operation document
- 2.Inspection report review
  - a.Result of NDT report review
  - b.Result of Visual Inspection review





- 3.Perform/review mechanical calculation
  - a.Determine/review corrosion rate
  - b.Calculating/review current Maximum Allowable Operating Pressure (MAOP)
  - c.Estimate/review remaining life of equipment





#### 4. Likelihood of Failure Assessment

- a. Third Party Damage Index determination
- b.Design Index determination
- c.Incorrect Operation Index determination
- d.Corrosion Index determination

No.	Items	Kategori Item	Skore Rata- Rata Cl Saat Ini	Kemungkinan Untuk Diperbaiki	Target Skor Cl Baru
1	Atmospheric Corrosion				
	1.1. Atmospheric Exposures	Attribute	1,00	Sulit	1,00
	1.2. Atmospheric Type	Attribute	1,20	Sulit	1,20
	1.3. Atmospheric Coating	Prevention	3,00	8isa	3,00
2	Internal Corrosion				
	2.1. Product Corrosivity	Attribute	7,00	Sult	7,00
	2.2. Internal Protection	Prevention	0,00	Bisa	4,00
Rata – Rata Corrosion Index Likelihood Cotegory			12,20		16,20
			3		3

Tabel 2.3 Skenario Mitigasi Berdasarkan Skor Subsurface Corrosion Index								
No.	Items	Kategori Item	Skore Rata- Rata CI Saat Ini	Kemungkinan Untuk Diperbaiki	Target Skor CI Baru			
1	Internal Corrosion							
	1.1. Product Corrosivity	Attribute	7,00	Sult	7,00			
	1.2. Internal Protection	Prevention	0,00	Bisa	4,00			
2	Subsurface Corrosion							
	2.1. Subsurface Environment							
	Soil Corrosivity	Attribute	11,74	Sulit	11,74			
	Mechanical Corrosion	Attribute	0,00	Sulit	0,00			
	2.2. Cathodic Protection	Prevention	17,85	Bisa	25,00			
	2.3. Coating	Prevention	19,76	Bisa	25,00			
Rata – Rata Corrosion Index			56,36		72,74			
Likelihood Category			2		1			

### 5. Consequence of Failure Assessment

a.Leak Impact Factor determination

6. Determine pipeline risk score, conclusion and recommendation



