

Aim and Progress for WP5 Metrology for Liquefied Natural Gas

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WP 5: Measurement Guidelines and Standards

Aim	To disseminate the project's results to all relevant and international stakeholders
Who	<ul style="list-style-type: none"> ▪ ISO and CEN technical committees ▪ International metrology community (EURAMET TC flow) ▪ Legal metrology bodies (OIML) ▪ LNG industry (GIIGNL) ▪ Others?
How	<p>The stakeholders will be approached to assist the JRP partners in ensuring that the project output is presented in the right manner to be useful for them.</p> <p>In addition feedback will be organized from the stakeholders by providing lectures on invitation.</p>
When	Ongoing to the end of the project.

WP 5: Challenges

WP5 is not a technical/scientific job but it will be a great challenge to reach our aims:

Some TC's/WG's may be hesitant to cooperate - we must approach them gently.

We should not rush them over by saying that we will contribute to their activities but rather propose and check how they would like that to be managed.

We must anticipate what to do in case we receive a negative response by asking the stakeholders that are taking seat in our advisory group or that are otherwise linked to the project to lobby for us.

Since the deadlines for deliverables of WP5 are mostly at the end of the project we risk in missing the deadlines if we don't plan in intermediate milestones and especially make agreement about who does what and when.

WP 5: Risk / Mitigation

Risk	Mitigation
<p>The first four work packages deliver contradicting results which renders providing input to the standards and guidelines more difficult.</p>	<p>When results contradict each other, a detailed investigation will be started into the possible sources of deviation.</p> <p>Tests will be repeated if necessary.</p>
<p>The ISO and CEN Technical committees have difficulty interpreting the project's results, i.e. they don't find the results presented in a way that allows them to incorporate them.</p>	<p>ISO/CEN committees will be involved in the project to ask advice on how to present the results to them.</p> <p>The project will pro-actively ask for feedback from the members of the ISO/CEN.</p>

Progress so far according to protocol

Colour legend:-
 Work in progress
 Completed
 Not yet started

Deliverable number	Deliverable description	Dependencies		Lead Participant	Other Participants	Delivery date	Comp. %
		Predecessor	Successor				
D5.1.1	Recommendations and information provided to ISO10976.			TUVNEL	Elengy, ENAGAS	MAR2013	
D5.1.2	Recommendations and information provided to ISO8943, ISO/TC67/WG10, ISO/TC193 and CEN/TC282.			Elengy	ENAGAS	MAR2013	0
D5.2.1	Presentation and draft guideline for small LNG flow meters.			VSL	TUVNEL, FORCE	JAN2013	0
D5.2.2	Draft guideline concerning the calibration concept of extrapolating water calibrations to LNG.			TUVNEL	VSL, FORCE	JAN2013	0
D5.3.1	Guideline and presentation for calculation of uncertainty of tank gauging systems.			Elengy	FORCE	MAY2012	0
D5.3.2	Guideline drafted for calibration of meters on-site.			JV	FORCE, Elengy	JAN2013	0
D5.3.3	Presentation and information provided to WELMEC WG10 describing the projects work related to regulation in Europe.			FORCE	Elengy, JV, VSL	MAR2013	0
D5.4	Recommendations and information provided to the future revision of GIIGNL custody transfer handbook.			Elengy	VSL, ENAGS, TUVNEL	MAR2013	

Progress so far according to protocol

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D5.1.1: Recommendations and information provided to ISO10976.

D5.1.1					
Tasks/Sub-deliverables	What	Predecessors	When		Who
			Start	End	
	TUVNEL attended a meeting of ISO TC28/SC5/WG5 in Jan. 11 and provided overview – work was welcomed and supported by the group.		JAN2011	JAN2011	TUVNEL

D5.4: Recommendations and information provided to the future revision of GIIGNL custody transfer handbook.

D5.4					
Tasks/Sub-deliverables	What	Predecessors	When		Who
			Start	End	
	For the GIIGNL meeting in Japan we had send in our draft on level gauging, however this meeting was cancelled due to the earthquake that hit Japan.				VSL

Other work in progress

WP5 is ongoing to the end of the project:

Maintain a detailed overview of all stakeholders relevant to the project including

- Relevant ISO and CEN technical committees
- International metrology community
- Legal metrology bodies
- LNG industry

Maintain each stakeholders data

- Chairman/secretary/members
- Interest in the project
- Meeting frequency/next meeting

Develop a communication strategy tailored to the individual stakeholder

Disseminate the project's results when these are generated and according to the strategy