



Subsea Valve Signature Tool

AT A GLANCE

Wouldn't it be great to know what condition your subsea valve actuators are in?

The Subsea Valve Signature Tool allows comprehensive monitoring and diagnosis of critical subsea equipment, without the hassle and cost of retrieval, disassembly and lost production.

KEY BENEFITS

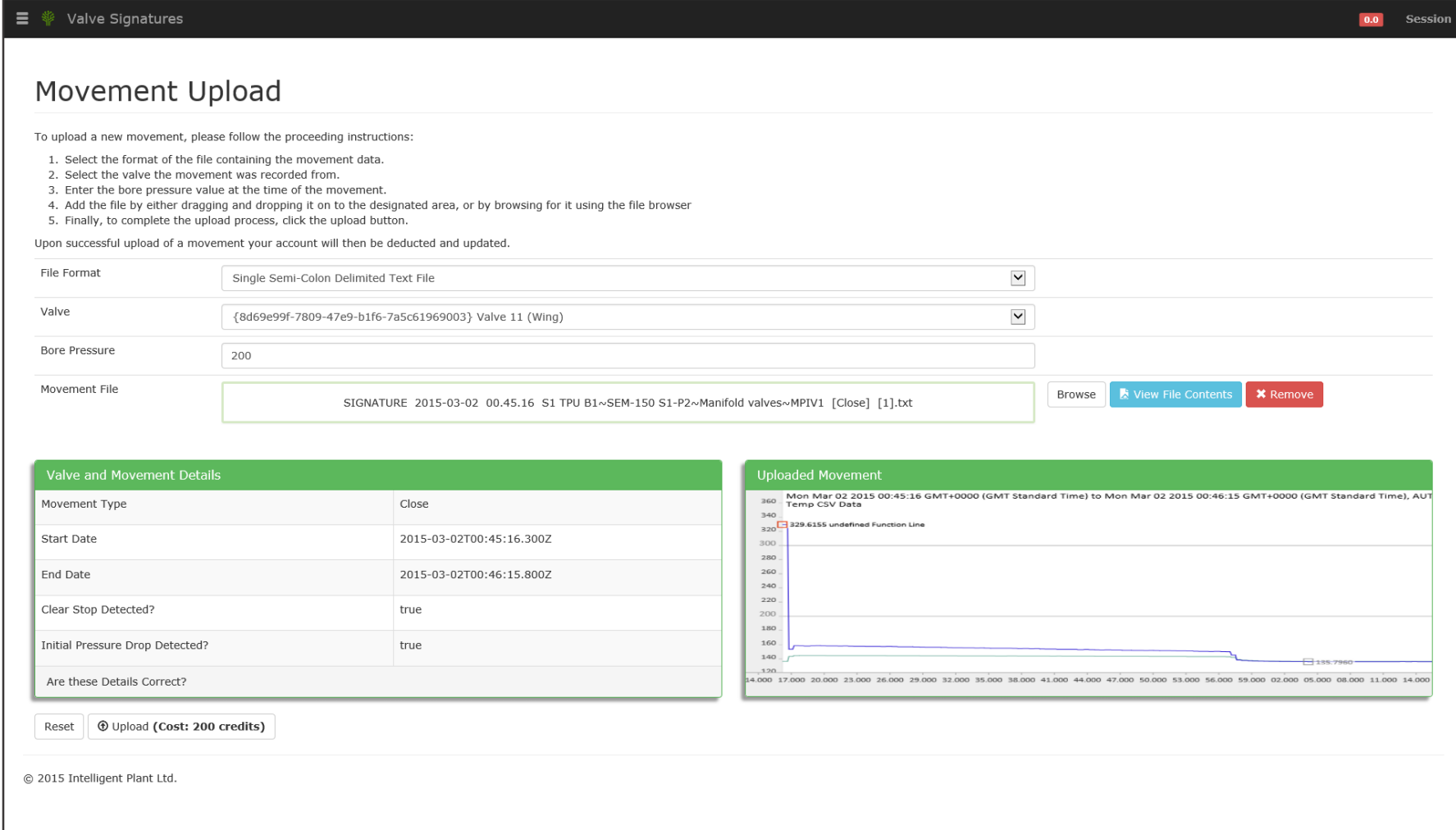
Monitoring Subsea Valve performance is critical in maintaining safety and safeguarding production uptime. Hydraulic pressures are monitored and analysed to provide 6 Key Health Indicators that determine the condition of a subsea valve.

Expose the creeping changes that are occurring and view throughout your organisation.

Unlimited data storage in the Cloud.

From Intelligent Plant's App Store

Purchase credits at the Intelligent Plant App Store. The purchaser of credits will be authorised to upload data. The more credits you buy, the cheaper they become!



Movement Upload

To upload a new movement, please follow the proceeding instructions:

1. Select the format of the file containing the movement data.
2. Select the valve the movement was recorded from.
3. Enter the bore pressure value at the time of the movement.
4. Add the file by either dragging and dropping it on to the designated area, or by browsing for it using the file browser
5. Finally, to complete the upload process, click the upload button.

Upon successful upload of a movement your account will then be deducted and updated.

File Format: Single Semi-Colon Delimited Text File

Valve: {8d69e99f-7809-47e9-b1f6-7a5c61969003} Valve 11 (Wing)

Bore Pressure: 200

Movement File: SIGNATURE 2015-03-02 00.45.16 S1 TPU B1~SEM-150 S1-P2~Manifold valves~MPIV1 [Close] [1].txt

Buttons: Browse, View File Contents, Remove

Valve and Movement Details	
Movement Type	Close
Start Date	2015-03-02T00:45:16.300Z
End Date	2015-03-02T00:46:15.800Z
Clear Stop Detected?	true
Initial Pressure Drop Detected?	true
Are these Details Correct?	

Buttons: Reset, Upload (Cost: 200 credits)

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Uploaded Movement

Mon Mar 02 2015 00:45:16 GMT+0000 (GMT Standard Time) to Mon Mar 02 2015 00:46:15 GMT+0000 (GMT Standard Time), AUT Temp CSV Data

329.6155 Undefined Function Line

150.7960

Upload the Subsea System generated file of the trend of the valve movement to the Intelligent Plant Subsea Valve Signature Tool. Allocate colleagues with whom you wish to share the information.

There are common formats for signatures – should you have another format, get in touch with us and we will see if we can accommodate it.

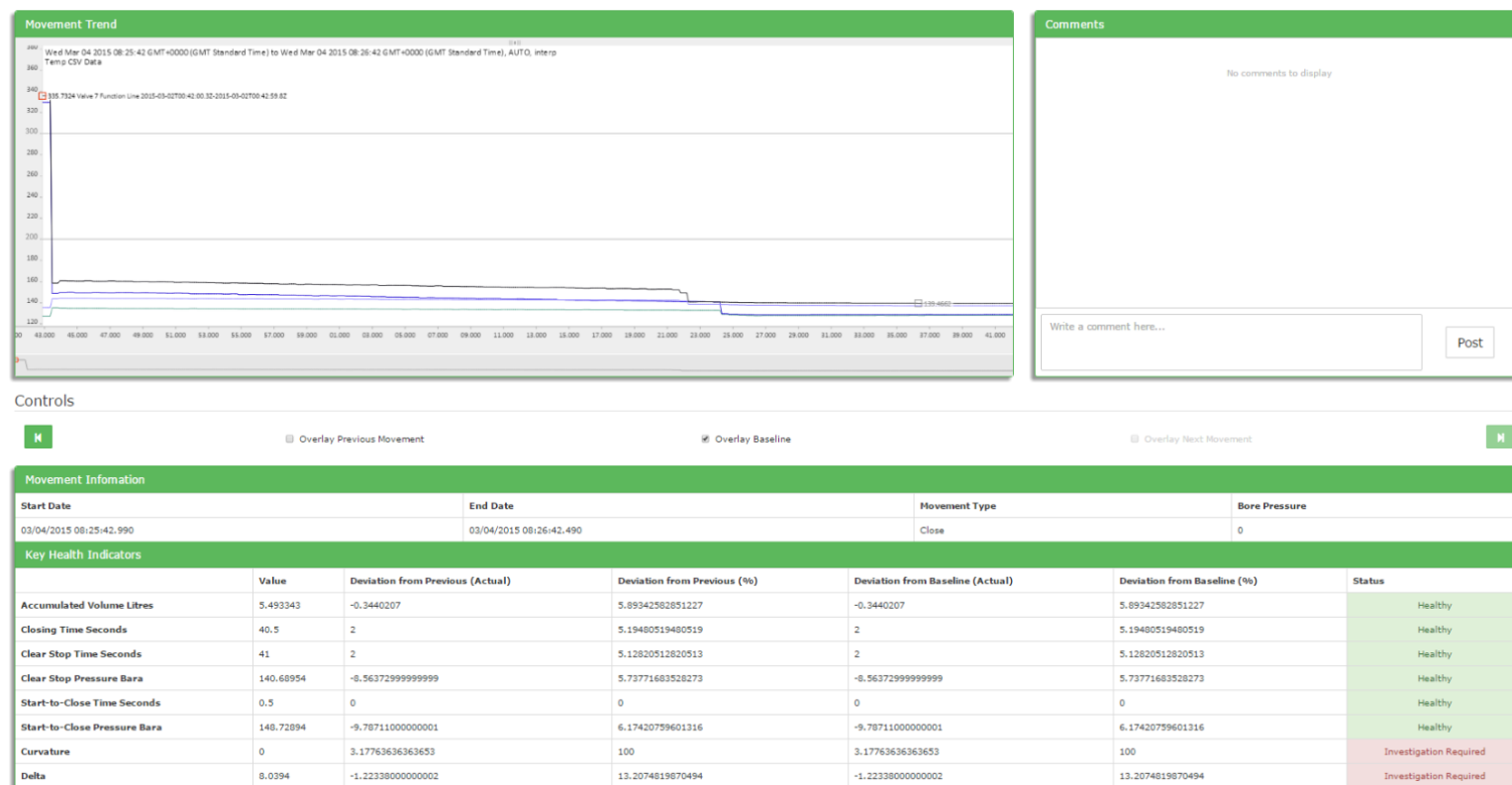
Visit the dedicated LinkedIn group to discuss and collaborate with other subsea experts around the world.

A completely new way of doing business in Oil & Gas!



Subsea Valve Signature Tool

Valve 7 Movement 03/04/2015 08:25:42.990 - 03/04/2015 08:26:42.490



Monitoring Subsea Valves is crucial for:

- Environmental and Emission compliance
- Effective and safe process operations
- Timely and appropriate interventions

The 6 Key Health Indicators are stored in each movement, and trended over time for each valve showing if degradation is occurring.

Valve Signatures 0.0 Session

Structure Overview

	Wing	XOV	SCSSV	Master	Annulus
NORTH	N/A	N/A	N/A	N/A	N/A
NORTH/N111	Valve 1	Valve 4	Valve 5	Valve 2	Valve 3
NORTH/N112	Valve 21	Valve 24	Valve 25	Valve 22	Valve 23
NORTH/N114	Valve 20	Valve 17	Valve 16	Valve 19	Valve 18
NORTH/N115	Valve 9	Valve 7	Valve 6	Valve 8	Valve 8
NORTH/N116	Valve 11	Valve 14	Valve 15	Valve 12	Valve 13

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Each valve is stored within a tree structure for easy navigation.

Measure:

- KHI 1 Accumulated Volume.
- KHI 2 Valve Closing Time.
- KHI 3 Clear Stop.
- KHI 4 Start-to-close Pressure.
- KHI 5 Function Line Curvature.
- KHI 6 Delta.

Diagnose:

- Valve fully closed.
- Spring forces and seal resistances.
- Valve friction.
- Damage to spring; cracking, yield, wear etc.
- Valve obstructions.

- Check and Monitor hundreds of valves.
- Instantly see which valves require attention.
- Visibility throughout your organisation.
- Simple and intuitive interface.

Intelligent Plant's Valve Signature Tool provides a simple and cost effective way to monitor and diagnose subsea valves.