PIPE TRACKING SYSTEM
Major Business Areas

- Pipelines
- Oil & Gas Platforms
- Refineries
- Petrochemical Complexes
- Jetties
- Power Plants
- Storage Tanks
- Motorways
- Bridges
- Stadiums
- High-Rises
- UGS’s
- Railways
- Tunnels
PIPELINE PROJECTS

WESTERN ROUTE PIPELINE, AZERI SECTION (1997-1998)
CASPION PIPELINE CONSORTIUM P/L, KAZAKHSTAN SECTION (CPC-K) (2000-2002)
RAS LAFFAN – MESAIEED ETHANE TRANSMISSION P/L (2005-2008)
HARWEEL CLUSTER GAS & OIL PIPELINE (2005-2010)
UMM BAB – MESAIEED CRUDE OIL PIPELINE (2006-2009)
SAS/ASAB MAIN OIL LINE (2009-2013)
OCP SLURRY PIPELINE (2010-2015)
YANBU – JEDDAH PIPELINE (2017-2019)
CONSTRUCTION MANAGEMENT SYSTEM

PIPELINE WORKS

PIPE TRACKING SYSTEM

- Web based system – accessible from anywhere from any device (tablet, mobile and computer etc.)
- Easy to integrate to other programs (like Oracle, Filenet, Unifier etc.)
- User friendly
## CONSTRUCTION MANAGEMENT SYSTEM

### Concrete Works
- Material Receiving
- Pre-Pour Inspection
- Concreting
- Post-pour Inspection
- Coating
- Release for O.A.

### Earth Works
- Material Receiving
- Existing Ground Control
- Compaction

### Electrical Works
- Material Receiving
- Cable Tray
- Conduit Installation
- Cable Pulling
- Cable Inspection
- Termination
- Electrical Equipment
- Grounding
- Motor Run
- Cathodic Protection

### Instrumentation Works
- Material Receiving
- Instrument Installation
- Instrument Cabling
- Loop check

### Mechanical works
- Rotating Equipment
- Static Equipment
- Special Equipment
- Fire Fighting

### Building Works
- Architecture
- Piping
- HVAC
- Fire Fighting
- Concrete
- Masonry
- Plumbing
- Cladding
- Equipment

### Pipeline Works
- Material Receiving
- Stringing
- Cold Bending
- Welding
- NDT-AUT
- Repair Weld
- Field Joint Coating
- Holiday Test
- Lowering In
- Trenching
- Backfilling
- Hydrotest
- Reinstatement

### Asphalt Works
- Material Receiving
- Mix Design Approval
- Subbase Laying
- Compaction Test
- Base Course
- Final Check
- Road Marking
- Guardrail Installation
- Fencing
- Signalization

### Tank Erection
- Material Receiving
- Foundation Release
- Cathodic Protection
- Annular Plate
- Bottom Plate
- Shell Plate
- Welding
- NDT
- Roundness Control
- Picking & Bending Control
- Levelness Control
- Hydrotest
- Painting
- Tank Final Check List
- Reinstatement
- Box up

### Spool Fabrication and Erection
- Material Receiving
- Nasting
- Welding
- NDT
- Repair
- PWHT
- Painting
- Release for Installation
- Field Installation
- Field Joint Coating
- Hydrotest
- Reinstatement
- Pre-commissioning

### Steel Fabrication and Erection
- Material Receiving
- Nasting
- Welding
- NDT
- Repair
- PWHT
- Painting
- Release for Installation
- Field Erection
- Bolt Torquing
- Paint Touch up

### Quality Assurance
- Change management
- Non-Conformance
- Over, Short, Damage
- KPIs
- Risk Management
- Site Observation
- Calibration
- Internal Audits

### HSSE
- KPIs
- Site Observation
- Incident reports
- Health Reports
- Waste Management
- Work Permit
PIPELINE WORKS

- Material Receiving
- Stringing
- Cold Bending
- Welding
- NDT-AUT
- Repair Weld
- Cutting Line Pipe
- Field Joint Coating
- Holiday Test
- Lowering In
- Hydrotest
- Trenching
- Backfilling
- Reinstatement

Pipe Tracking System
PIPE TRACKING SYSTEM

Tracing the material of line pipe from mill source to pipeline system

Heat Number  Pipe Number  Kilometer Point
Section No
PIPE TRACKING SYSTEM

Each line pipe has specific information

- Heat Number
- Pipe Number
- Pipe Coating
- Diameter
- Wall Thickness
- Length
- Material Details
- Pipe Manufacturer
- Test Certificates
PIPE TRACKING SYSTEM

Tracing the material of line pipe from mill source to pipeline system

- Material Receiving
- Stringing
- Cold Bending
- Welding
- NDT-AUT
- Repair Weld
- Cutting Line Pipe
- Field Joint Coating

Other inspection and record information

Heat Number
Pipe Number
Pipe Coating
Diameter
Wall Thickness
Length
Material Details
Pipe Manufacturer
## Visual Examination Report for Pipeline Welding

### EXAMINATION RESULTS

<table>
<thead>
<tr>
<th>Location</th>
<th>Drawing No.</th>
<th>Date</th>
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<table>
<thead>
<tr>
<th>S No</th>
<th>WPS No</th>
<th>PROCESS</th>
<th>Welder ID</th>
<th>Joint No</th>
<th>Diameter (mm)</th>
<th>Heat No (1)</th>
<th>Pipe Thickness (1)</th>
<th>Heat No (2)</th>
<th>Pipe Thickness (2)</th>
<th>Pipe No. (1)</th>
<th>Pipe No. (2)</th>
<th>Decision</th>
<th>Re-heat</th>
<th>Interpass</th>
<th>Decision</th>
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### Electrical Characteristics and Travel Speed

<table>
<thead>
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<th>Joint No</th>
<th>Layer Joint Tested</th>
<th>PROCESS</th>
<th>AMPERAGE (A)</th>
<th>VOLTAGE (V)</th>
<th>Travel Speed (CM/MIN)</th>
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</thead>
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</tr>
</tbody>
</table>

* : Randomly measurement as follows

PIPE TRACKING SYSTEM

Inspector recording on scribble

Transferring from scribble to inspection form

Data enterance to database
PIPE TRACKING SYSTEM

Barcode Reading in few secs.

Filling the inspection form
PIPE TRACKING SYSTEM

Advantages of Digital Data Collecting

**Giving confidence to the Client**

- No Paper Wastage

- Saving time

- Minimizing human errors

TIME = $
PIPE TRACKING SYSTEM

Barcode

Heat Number
Pipe Number
Pipe Coating
Diameter
Wall Thickness
Length
Material Details
Pipe Manufacturer
## PIPE TRACKING SYSTEM

### Line Pipe Log

<table>
<thead>
<tr>
<th>Barcode no</th>
<th>Pipe no</th>
<th>Heat no</th>
<th>Dia (inch)</th>
<th>WT (mm)</th>
<th>length (m)</th>
<th>Material</th>
<th>Manufacturer</th>
<th>Mill source</th>
<th>Coating</th>
<th>Material Certificate</th>
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<tbody>
<tr>
<td>123456789</td>
<td>SPI22019</td>
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<td>32</td>
<td>39.1</td>
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<td>SAWL450</td>
<td>Manufacturer1</td>
<td>Mill2</td>
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<td>Mill2</td>
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</table>
PIPE TRACKING SYSTEM

Welding Inspection

Start Welding

Ahmet Yavuz

3 OPEN 0 OVERDUE

1 Read Barcode
   Case WR-31

2 Generate Report
   Case WR-28

3 Read Barcode
   Case WR-22
PIPE TRACKING SYSTEM

Barcode Reading

Read Barcode (Pipe1)

Read Barcode (Pipe2)

Add Item

No items

Cancel  Save  Continue
PIPE TRACKING SYSTEM

Barcode Reading
PIPE TRACKING SYSTEM

Barcode Reading

Read Barcode (Pipe1)
4902778913956

Read Barcode (Pipe2)
4006856505719

Add Item

<table>
<thead>
<tr>
<th></th>
<th>Pipe No(1)</th>
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<td>Heat No(1)</td>
<td>395258</td>
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<tr>
<td></td>
<td>Thickness(1)</td>
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<tr>
<td></td>
<td>Pipe No(2)</td>
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<td></td>
<td>Thickness(2)</td>
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</tbody>
</table>

Cancel  Save  Continue
PIPE TRACKING SYSTEM

Barcode Reading

- Heat Number
- Pipe Number
- Pipe Coating
- Diameter
- Wall Thickness
- Length
- Material Details
- Pipe Manufacturer

Read Barcode (Pipe1)
4902778913956
Read Barcode (Pipe2)
4006856505719
Add Item

1
Pipe No(1) SP120154
Heat No(1) 395258
Thickness(1) 39.1
Pipe No(2) SP120139
Heat No(2) 395238
Thickness(2) 39.1

Cancel  Save  Continue

Dashboard  Cases  My Teams  Alerts  More
### PIPE TRACKING SYSTEM

#### Creating Specific Report Number

![Image of PIPE TRACKING SYSTEM interface]

<table>
<thead>
<tr>
<th>Name</th>
<th>Case</th>
<th>Category</th>
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<tbody>
<tr>
<td>Additional Info</td>
<td>WR-33</td>
<td>Welding</td>
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<td>Generate Report</td>
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<td>Read Barcode</td>
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<td>Welding</td>
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### PIPE TRACKING SYSTEM

#### Welding (WR-33)

<table>
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<th>Pipe No(1)</th>
<th>Heat No(1)</th>
<th>Thickness(1)</th>
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<th>Heat No(2)</th>
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<td>39.1</td>
<td>SP120139</td>
<td>395238</td>
<td>39.1</td>
</tr>
</tbody>
</table>

#### Welding Details

- **WPS No:** TKF-WPS-001
- **Welder ID:** Please Choose

<table>
<thead>
<tr>
<th>Process</th>
<th>Joint No</th>
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<tbody>
<tr>
<td>GTAW-FCAW</td>
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</tbody>
</table>

- **Fill-Up Decision:**
  - ○ A
  - ○ C
  - ○ R

- **Root Pass Decision:**
  - ○ A
  - ○ C
  - ○ R

- **Cap Pass Decision:**
  - ○ R
  - ○ A
  - ○ C

- **Cap Pass Found:**
  - ○ None
  - ○ A5
  - ○ CR
  - ○ UC
  - ○ HL
  - ○ IR
  - ○ ER

- **Owner:**

#### ELECTRICAL CHARACTERISTICS and TRAVEL SPEED

**Add Item** | **Delete**

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<tr>
<th>Joint No</th>
<th>Layer Joint Tested</th>
<th>Process</th>
<th>AMPERAGE (A)</th>
<th>Voltage (V)</th>
<th>Travel Speed (CM/MIN)</th>
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PIPE TRACKING SYSTEM

VISUAL EXAMINATION REPORT for PIPELINE WELDING

<table>
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<tr>
<th>Diameter</th>
<th>Pipe No(1)</th>
<th>Heat No(1)</th>
<th>Thickness(1)</th>
<th>Pipe No(2)</th>
<th>Heat No(2)</th>
<th>Thickness(2)</th>
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<td>39.1</td>
<td>SP120139</td>
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ELECTRICAL CHARACTERISTICS and TRAVEL SPEED

<table>
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<th>Layer Joint Tested</th>
<th>Process</th>
<th>AMPERAGE (A)</th>
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<th>Travel Speed (CM/MIN)</th>
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</thead>
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PIPE TRACKING SYSTEM

Attachments

[Attachment preview]

VISUAL EXAMINATION REPORT for PIPELINE WELDING

Location: 
Date: 01.03.2018

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Pipe No(1)</th>
<th>Heat No(1)</th>
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ELECTRICAL CHARACTERISTICS and TRAVEL SPEED

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<th>AMPERAGE (A)</th>
<th>Voltage (V)</th>
<th>Travel Speed (CM/MIN)</th>
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</thead>
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No items

Remarks:

[Input field]
**PIPE TRACKING SYSTEM**

**VISUAL EXAMINATION REPORT FOR PIPELINE WELDING**

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<tr>
<th>Location</th>
<th>Date</th>
<th>Workpiece Data</th>
<th>Fillup</th>
<th>Temperature</th>
<th>Root Pass</th>
<th>Fill Pass</th>
<th>Cap Pass</th>
<th>NDT Release</th>
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<tr>
<td>KP 001+000 – KP 002+000</td>
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<td>343.28</td>
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<table>
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<td>Root</td>
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<td>9</td>
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* Randomly measurement as follows

**Defects**

**Decision**
- Acceptable / C: No Action / R: To be Rejected

**TEKFEN QA/QC (Welding Eng./Inspector)**
- Name: Ahmet Yavuz
- Date: 01/03/2018

**Client Representative**
- Name: Ibrahim OKÇAY
- Date: 01/03/2018
PIPE TRACKING SYSTEM

![Image of a tracking system interface]

### Visual Examination Report for Pipeline Welding

**Date:** 03/03/2018

<table>
<thead>
<tr>
<th>Diameter</th>
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#### Electrical Characteristics and Travel Speed

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<td>GTAW</td>
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<td>0.9</td>
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**Remarks:**

---

**Case Information**

- **Case details:**
  - Last updated by: Ahmet Yavuz (admin@gm)
  - Created by: Ahmet Yavuz (admin@gm)
  - Open assignments:
    - Approve Welding: (Current)
    - Inspection Order

**Attachments:**

- Visual Examination Report
- Report

**Participants:**

- Manage
### PIPE TRACKING SYSTEM

#### Welding (WR-33)  
*Status: Pending Approval*

Thank you! The next step in this case has been routed appropriately.

### Case information

**VISUAL EXAMINATION REPORT for PIPELINE WELDING**  
**Location:** KP-001=000 - KP-002=000  
**Date:** 3/4/18

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<td>39.1</td>
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#### Welding Details

**WPS No:** TNP-WPS-001  
**Welder ID:** W-004  
**Temperature Pre-Heat:**  
**Fill Pass Decision:** A  
**True**

**Process:** GTAW+ICAW  
**Welder ID2:** W-012  
**Temperature Inter-pass:**  
**Cap Pass Decision:** A  
**False**

**Joint No:** 125  
**First Pass Decision:** A  
**Root Pass Decision:** A  
**Cap Pass Found:** None  
**Other:**

### ELECTRICAL CHARACTERISTICS and TRAVEL SPEED

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Remarks:
### Oil & Gas Projects Edition October 2016

## PIPE TRACKING SYSTEM

### Pipeline Log

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ANY QUESTION
Thank You for Listening

By: Ibrahim Okcay