



**CASE STUDY #02**

**Jacobs/Suncor, Canada**

**Customer Profile**

Suncor has been involved in Oil sands bitumen recovery and upgrading for crude oil production since 1967. Jacobs is a leader in design of oil sands and heavy oil production facilities.

**Contact Details**

Contact Name/Tel./ Email will be available on request.

**Problem Statement**

INCAN / Jacobs required piping specification creation on Intergraph SmartPlant 3D format to start 3D Modelling and later MTO extraction on Suncor Firebag and Voyageur Projects.

**Rolta Solution**

Rolta has provided the following solution.

1. Creation of piping specifications
2. Incorporating markups
3. Assisting resolution of "To-Do List" errors on Jacobs SP3D Production Database at Calgary, Canada by deputing a resource for 3 weeks.

SmartCode	Comments	# of Spec Items	# of Spec Items	# of Spec Items
valve/pipe/tee				
Piping/Pipeline		1	12	1
Piping/Flange		1	57	1
Check Valve/Check Valve		1	8	1
Ball Valve/Ball Valve		1	6	1
Blind Flange/Blind Flange 150# Raised Face		1	12	1
Reducing Filler Flange/Reducing Filler Flange 1in3 in	lined thru bolt holes at large end, tapped holes at small	21	5	1
Reducing Filler Flange/Reducing Filler Flange 1in2 in	lined thru bolt holes at large end, tapped holes at small	2	2	1
Reducing Filler Flange/Reducing Filler Flange 1in1 1/2 in	lined thru bolt holes at large end, tapped holes at small	3	3	1
Reducing Filler Flange/Reducing Filler Flange 1in1 1/4 in	lined thru bolt holes at large end, tapped holes at small	4	4	1
Reducing Filler Flange/Reducing Filler Flange 1in1 1/8 in	lined thru bolt holes at large end, tapped holes at small	4	4	1
Reducing Filler Flange/Reducing Filler Flange 1in3/4 in	lined thru bolt holes at large end, tapped holes at small	8	8	1
Reducing Filler Flange/Reducing Filler Flange 1in1/2 in	lined thru bolt holes at large end, tapped holes at small	19	19	1
Reducing Filler Flange/Reducing Filler Flange 1in1 in	lined thru bolt holes at large end, tapped holes at small	17	17	1
Fillings				
Concentric Size Change/Concentric Reducer		21	5	1
Eccentric Size Change/Eccentric Reducer		2	2	1

**The Project**

The Scope of Work included creation of Piping Specifications for Suncor's Firebag and Voyageur Projects in Fort McMurray, Alberta, Canada.

Customer supplied paper Specs in \*.PDF format, Branch table, piping thickness tables as inputs.

Piping specs (121 nos.) are being created in SmartPlant 3D version 6.1

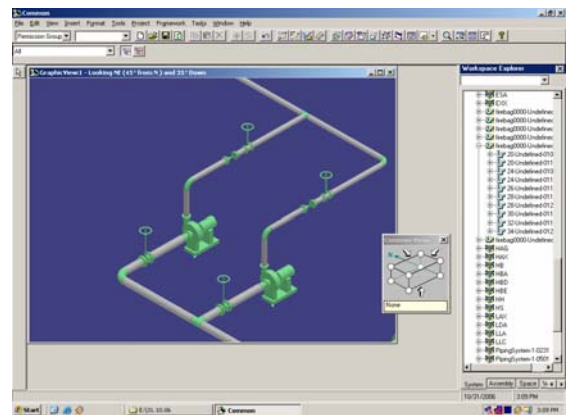
- 69 specs for Suncor Firebag in-situ oil sands
- 52 specs for Suncor Voyageur Project

Rolta carried out QC Checks like Run Verify Consistency Report, Diagnostic Checks, Placement Checking and Iso Extraction to ensure 3D Modeling could start immediately after the delivery of the specs.

**Deliverables**

The following Piping Spec Deliverables were created by Rolta and delivered after stringent QC/QA.

1. Piping Specification
2. Piping Commodity Material Control Data
3. Piping Catalog
4. Plant Rules
5. Modified Industry Commodity Code Rule



**Benefits to Customer**

The Firebag Project 3D Modeling and further downstream work like MTO extraction is proceeding on schedule at Jacobs with timely and accurate engineering inputs from Rolta. Voyageur project is slated to start with Jacobs / Suncor-approved Firebag Catalog. This project is expected to proceed faster due to a frozen catalog. Thus, the customer will reap more benefits in terms of cost and schedule.