

Process, Power and Marine Division

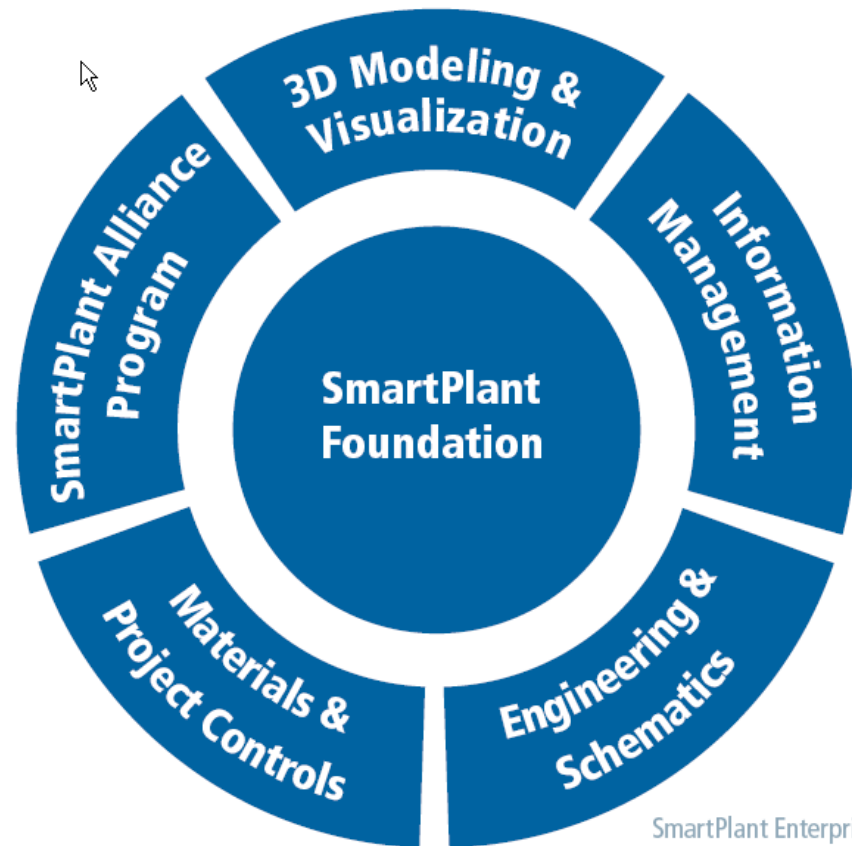
SmartPlant Enterprise

Management Overview Training



SmartPlant Enterprise

- SmartPlant Enterprise is an integration architecture.
- It provides out of the box integration for applications covering various aspects of plant design and engineering



SmartPlant Enterprise offers an integrated, life cycle approach.

SmartPlant[®] Enterprise

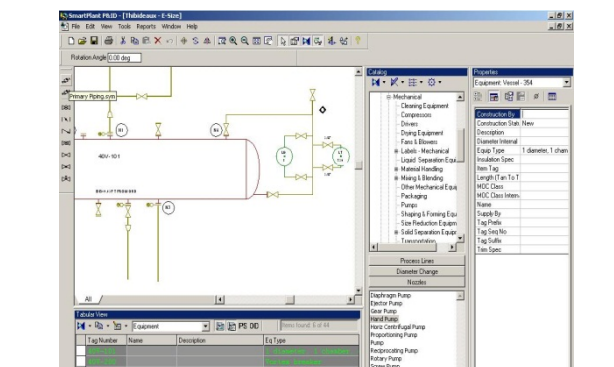
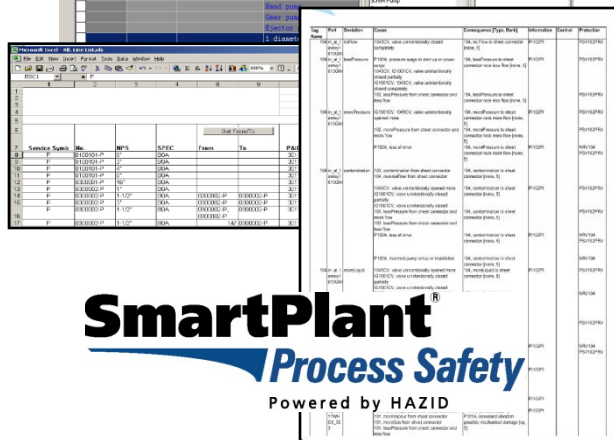
SmartPlant[®] 3D

... Setting new standards 2D design

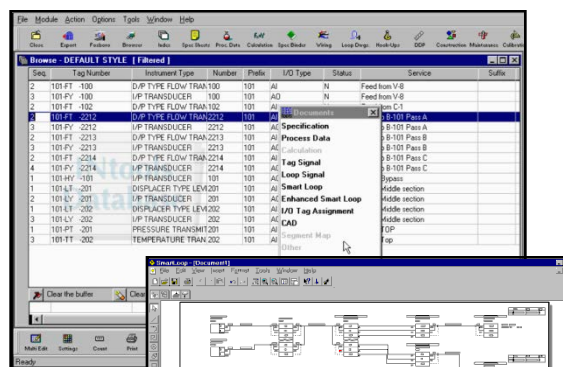
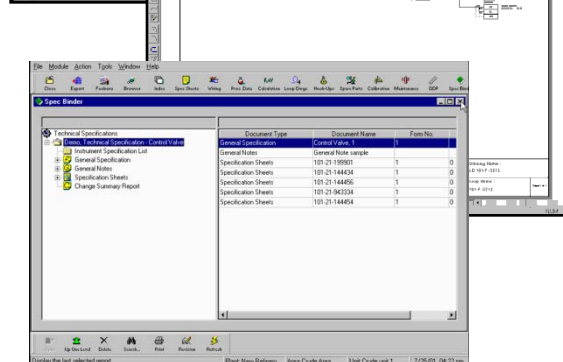
SmartPlant[®] P&ID

SmartPlant[®] Instrumentation

SmartPlant[®] Electrical

SmartPlant[®] Process Safety
Powered by HAZID

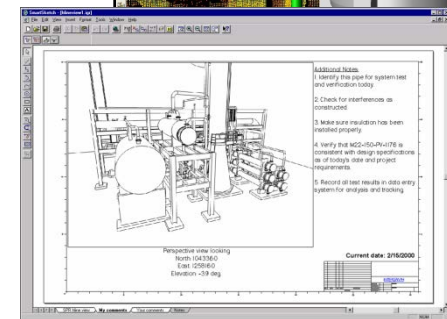
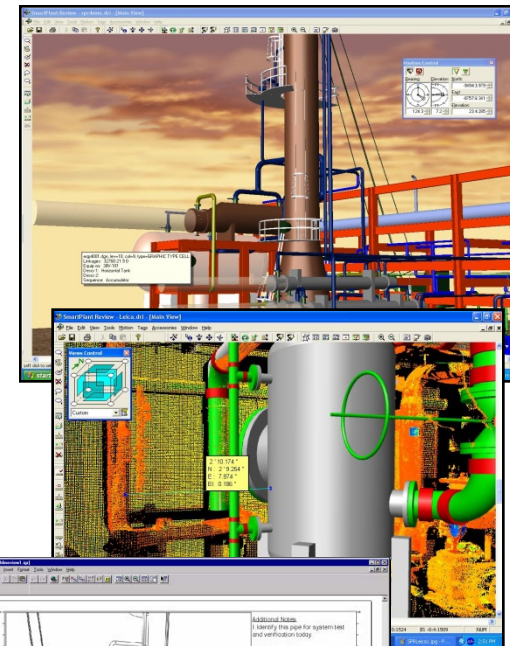
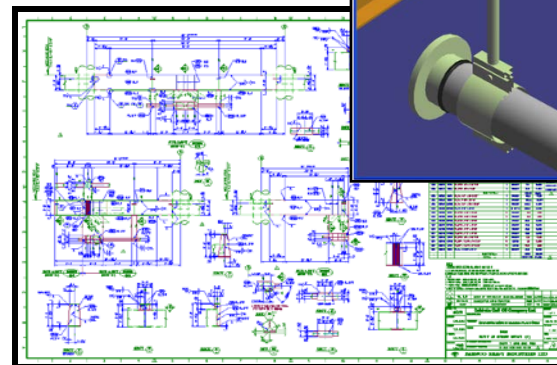
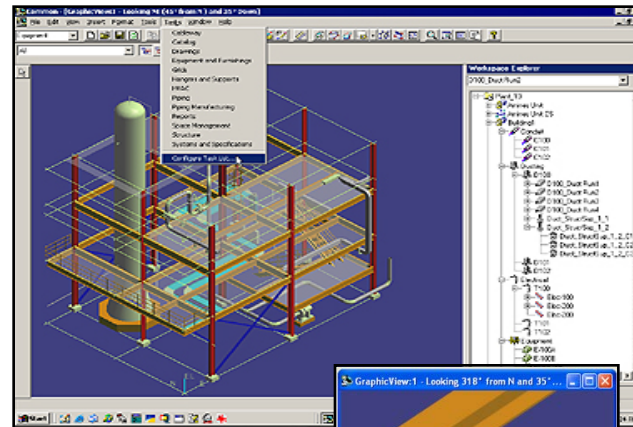
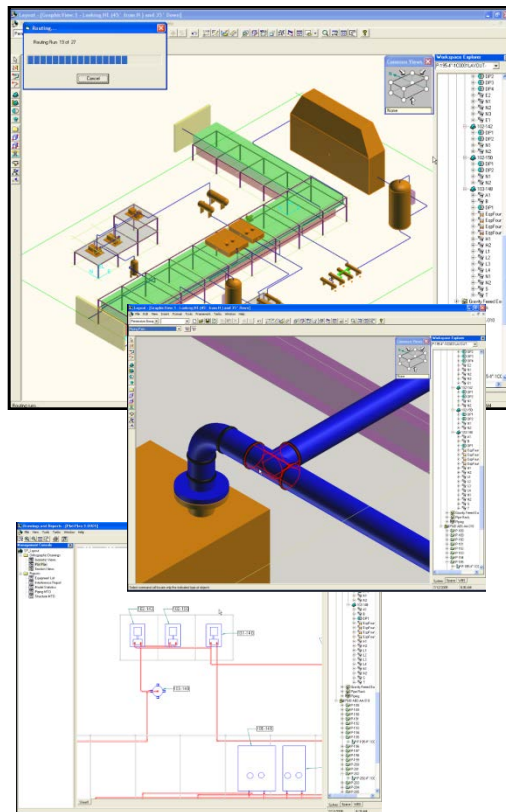
Seq.	Tag Number	Instrument Type	Number	Profile	I/O Type	Status	Service	Suffix
1	101-FI-100	DUP TYPE FLOW TRAN	100	AI	N	Feed from V-8		
2	101-FI-100	I-P TRANSDUCER	100	AI	N	Feed from V-8		
3	101-FI-102	DUP TYPE FLOW TRAN	102	AI		Feed from C-1		
4	101-FI-200	DUP TYPE FLOW TRAN	200	AI				
5	101-FI-200	I-P TRANSDUCER	200	AI				
6	101-FI-213	DUP TYPE FLOW TRAN	213	AI				
7	101-FI-213	I-P TRANSDUCER	213	AI				
8	101-FI-213	DUP TYPE FLOW TRAN	214	AI				
9	101-FI-214	I-P TRANSDUCER	214	AI				
10	101-FI-214	DUP TYPE FLOW TRAN	215	AI				
11	101-FI-215	I-P TRANSDUCER	215	AI				
12	101-FI-215	DUP TYPE FLOW TRAN	216	AI				
13	101-FI-216	I-P TRANSDUCER	216	AI				
14	101-FI-216	DUP TYPE FLOW TRAN	217	AI				
15	101-FI-217	I-P TRANSDUCER	217	AI				
16	101-FI-217	DUP TYPE FLOW TRAN	218	AI				
17	101-FI-218	I-P TRANSDUCER	218	AI				
18	101-FI-218	DUP TYPE FLOW TRAN	219	AI				
19	101-FI-219	I-P TRANSDUCER	219	AI				
20	101-FI-219	DUP TYPE FLOW TRAN	220	AI				
21	101-FI-220	I-P TRANSDUCER	220	AI				
22	101-FI-220	DUP TYPE FLOW TRAN	221	AI				
23	101-FI-221	I-P TRANSDUCER	221	AI				
24	101-FI-221	DUP TYPE FLOW TRAN	222	AI				
25	101-FI-222	I-P TRANSDUCER	222	AI				
26	101-FI-222	DUP TYPE FLOW TRAN	223	AI				
27	101-FI-223	I-P TRANSDUCER	223	AI				
28	101-FI-223	DUP TYPE FLOW TRAN	224	AI				
29	101-FI-224	I-P TRANSDUCER	224	AI				
30	101-FI-224	DUP TYPE FLOW TRAN	225	AI				
31	101-FI-225	I-P TRANSDUCER	225	AI				
32	101-FI-225	DUP TYPE FLOW TRAN	226	AI				
33	101-FI-226	I-P TRANSDUCER	226	AI				
34	101-FI-226	DUP TYPE FLOW TRAN	227	AI				
35	101-FI-227	I-P TRANSDUCER	227	AI				
36	101-FI-227	DUP TYPE FLOW TRAN	228	AI				
37	101-FI-228	I-P TRANSDUCER	228	AI				
38	101-FI-228	DUP TYPE FLOW TRAN	229	AI				
39	101-FI-229	I-P TRANSDUCER	229	AI				
40	101-FI-229	DUP TYPE FLOW TRAN	230	AI				
41	101-FI-230	I-P TRANSDUCER	230	AI				
42	101-FI-230	DUP TYPE FLOW TRAN	231	AI				
43	101-FI-231	I-P TRANSDUCER	231	AI				
44	101-FI-231	DUP TYPE FLOW TRAN	232	AI				
45	101-FI-232	I-P TRANSDUCER	232	AI				
46	101-FI-232	DUP TYPE FLOW TRAN	233	AI				
47	101-FI-233	I-P TRANSDUCER	233	AI				
48	101-FI-233	DUP TYPE FLOW TRAN	234	AI				
49	101-FI-234	I-P TRANSDUCER	234	AI				
50	101-FI-234	DUP TYPE FLOW TRAN	235	AI				
51	101-FI-235	I-P TRANSDUCER	235	AI				
52	101-FI-235	DUP TYPE FLOW TRAN	236	AI				
53	101-FI-236	I-P TRANSDUCER	236	AI				
54	101-FI-236	DUP TYPE FLOW TRAN	237	AI				
55	101-FI-237	I-P TRANSDUCER	237	AI				
56	101-FI-237	DUP TYPE FLOW TRAN	238	AI				
57	101-FI-238	I-P TRANSDUCER	238	AI				
58	101-FI-238	DUP TYPE FLOW TRAN	239	AI				
59	101-FI-239	I-P TRANSDUCER	239	AI				
60	101-FI-239	DUP TYPE FLOW TRAN	240	AI				
61	101-FI-240	I-P TRANSDUCER	240	AI				
62	101-FI-240	DUP TYPE FLOW TRAN	241	AI				
63	101-FI-241	I-P TRANSDUCER	241	AI				
64	101-FI-241	DUP TYPE FLOW TRAN	242	AI				
65	101-FI-242	I-P TRANSDUCER	242	AI				
66	101-FI-242	DUP TYPE FLOW TRAN	243	AI				
67	101-FI-243	I-P TRANSDUCER	243	AI				
68	101-FI-243	DUP TYPE FLOW TRAN	244	AI				
69	101-FI-244	I-P TRANSDUCER	244	AI				
70	101-FI-244	DUP TYPE FLOW TRAN	245	AI				
71	101-FI-245	I-P TRANSDUCER	245	AI				
72	101-FI-245	DUP TYPE FLOW TRAN	246	AI				
73	101-FI-246	I-P TRANSDUCER	246	AI				
74	101-FI-246	DUP TYPE FLOW TRAN	247	AI				
75	101-FI-247	I-P TRANSDUCER	247	AI				
76	101-FI-247	DUP TYPE FLOW TRAN	248	AI				
77	101-FI-248	I-P TRANSDUCER	248	AI				
78	101-FI-248	DUP TYPE FLOW TRAN	249	AI				
79	101-FI-249	I-P TRANSDUCER	249	AI				
80	101-FI-249	DUP TYPE FLOW TRAN	250	AI				
81	101-FI-250	I-P TRANSDUCER	250	AI				
82	101-FI-250	DUP TYPE FLOW TRAN	251	AI				
83	101-FI-251	I-P TRANSDUCER	251	AI				
84	101-FI-251	DUP TYPE FLOW TRAN	252	AI				
85	101-FI-252	I-P TRANSDUCER	252	AI				
86	101-FI-252	DUP TYPE FLOW TRAN	253	AI				
87	101-FI-253	I-P TRANSDUCER	253	AI				
88	101-FI-253	DUP TYPE FLOW TRAN	254	AI				
89	101-FI-254	I-P TRANSDUCER	254	AI				
90	101-FI-254	DUP TYPE FLOW TRAN	255	AI				
91	101-FI-255	I-P TRANSDUCER	255	AI				
92	101-FI-255	DUP TYPE FLOW TRAN	256	AI				
93	101-FI-256	I-P TRANSDUCER	256	AI				
94	101-FI-256	DUP TYPE FLOW TRAN	257	AI				
95	101-FI-257	I-P TRANSDUCER	257	AI				
96	101-FI-257	DUP TYPE FLOW TRAN	258	AI				
97	101-FI-258	I-P TRANSDUCER	258	AI				
98	101-FI-258	DUP TYPE FLOW TRAN	259	AI				
99	101-FI-259	I-P TRANSDUCER	259	AI				
100	101-FI-259	DUP TYPE FLOW TRAN	260	AI				
101	101-FI-260	I-P TRANSDUCER	260	AI				
102	101-FI-260	DUP TYPE FLOW TRAN	261	AI				
103	101-FI-261	I-P TRANSDUCER	261	AI				
104	101-FI-261	DUP TYPE FLOW TRAN	262	AI				
105	101-FI-262	I-P TRANSDUCER	262	AI				
106	101-FI-262	DUP TYPE FLOW TRAN	263	AI				
107	101-FI-263	I-P TRANSDUCER	263	AI				
108	101-FI-263	DUP TYPE FLOW TRAN	264	AI				
109	101-FI-264	I-P TRANSDUCER	264	AI				
110	101-FI-264	DUP TYPE FLOW TRAN	265	AI				
111	101-FI-265	I-P TRANSDUCER	265	AI				
112	101-FI-265	DUP TYPE FLOW TRAN	266	AI				
113	101-FI-266	I-P TRANSDUCER	266	AI				
114	101-FI-266	DUP TYPE FLOW TRAN	267	AI				
115	101-FI-267	I-P TRANSDUCER	267	AI				
116	101-FI-267	DUP TYPE FLOW TRAN	268	AI				
117	101-FI-268	I-P TRANSDUCER	268	AI				
118	101-FI-268	DUP TYPE FLOW TRAN	269	AI				
119	101-FI-269	I-P TRANSDUCER	269	AI				
120	101-FI-269	DUP TYPE FLOW TRAN	270	AI				
121	101-FI-270	I-P TRANSDUCER	270	AI				
122	101-FI-270	DUP TYPE FLOW TRAN	271	AI				
123	101-FI-271	I-P TRANSDUCER	271	AI				
124	101-FI-271	DUP TYPE FLOW TRAN	272	AI				
125	101-FI-272	I-P TRANSDUCER	272	AI				
126	101-FI-272	DUP TYPE FLOW TRAN	273	AI				
127	101-FI-273	I-P TRANSDUCER	273	AI				
128	101-FI-273	DUP TYPE FLOW TRAN	274	AI				
129	101-FI-274	I-P TRANSDUCER	274	AI				
130	101-FI-274	DUP TYPE FLOW TRAN	275	AI				
131	101-FI-275	I-P TRANSDUCER	275	AI				
132	101-FI-275	DUP TYPE FLOW TRAN	276	AI				
133	101-FI-276	I-P TRANSDUCER	276	AI				
134	101-FI-276	DUP TYPE FLOW TRAN	277	AI				
135	101-FI-277	I-P TRANSDUCER	277	AI				
136	101-FI-277	DUP TYPE FLOW TRAN	278	AI				
137	101-FI-278	I-P TRANSDUCER	278	AI				
138	101-FI-278	DUP TYPE FLOW TRAN	279	AI				
139	101-FI-279	I-P TRANSDUCER	279	AI				
140	101-FI-279	DUP TYPE FLOW TRAN	280	AI				
141	101-FI-280	I-P TRANSDUCER	280	AI				
142	101-FI-280	DUP TYPE FLOW TRAN	281	AI				
143	101-FI-281	I-P TRANSDUCER	281	AI				
144	101-FI-281	DUP TYPE FLOW TRAN	282	AI				
145	101-FI-282	I-P TRANSDUCER	282	AI				
146	101-FI-282	DUP TYPE FLOW TRAN	283	AI				
147	101-FI-283	I-P TRANSDUCER	283	AI				
148	101-FI-283	DUP TYPE FLOW TRAN	284	AI				
149	101-FI-284	I-P TRANSDUCER	284	AI				
150	101-FI-284	DUP TYPE FLOW TRAN	285	AI				
151	101-FI-285	I-P TRANSDUCER	285	AI				
152	101-FI-285	DUP TYPE FLOW TRAN	286	AI		</		

*SmartPlant 3D is part of 3D
design & visualization tools*

SmartPlant[®]
Layout

SmartPlant[®]
3D

SmartPlant[®]
Review



... Setting new standards in
Materials & Project Management

SmartPlant Materials[®]



Piping Material Specification Line Class 1/CSI/ISO1

SERVICE: Process: RATING CLASS: 150, ASME B16.5-1998
TEMPERATURE LIMIT: -20F to 800F (Note 09) MATERIAL: Carbon Steel
DESIGN CODE: ASME B31.3 - 1999 STRESS RELIEF: Per ASME B31.3
EXAMINATION: Per ASME B31.3

PERMITTING - TEMPERATURE RATINGS

Temp F	100	200	300	400	500	600	700	800
Temp C	38	93	149	204	260	316	371	427

ITEM Notes NPS1 NPS2
P-PIPE 136.01 1/2" - 1 1/2" -
P-PIPE 29 26" - 48" -
P-NOPLS 1/2" - 1 1/2" -
EDCBLVOC 3/4" - 1 1/2" 1/2" - 1"
EDCBLVOC 3/4" - 1 1/2" 1/2" - 1"
BR-OLET 3" - 48" 1/2" - 1 1/2"
EDCBLCON 3" - 48" 2" - 42"
EDCBLCC 3" - 48" 2" - 42"

Multi Position View Single Bulk Material View Single Tag Material View

Position Values: Pos: 1, Group: 1, Part: 1, Material: 1, Size: 1, Size 1/2, Size 3/4, Size 1, Size 1 1/2, Size 2, Size 3, Size 4, Size 6, Size 8, Size 10, Size 12, Size 14, Size 16, Size 18, Size 20, Size 24, Size 30, Size 36, Size 42, Size 48, Size 60, Size 72, Size 84, Size 96, Size 108, Size 120, Size 144, Size 168, Size 192, Size 216, Size 240, Size 264, Size 288, Size 312, Size 336, Size 360, Size 384, Size 408, Size 432, Size 456, Size 480, Size 504, Size 528, Size 552, Size 576, Size 600, Size 624, Size 648, Size 672, Size 696, Size 720, Size 744, Size 768, Size 792, Size 816, Size 840, Size 864, Size 888, Size 912, Size 936, Size 960, Size 984, Size 1008, Size 1032, Size 1056, Size 1080, Size 1104, Size 1128, Size 1152, Size 1176, Size 1200, Size 1224, Size 1248, Size 1272, Size 1296, Size 1320, Size 1344, Size 1368, Size 1392, Size 1416, Size 1440, Size 1464, Size 1488, Size 1512, Size 1536, Size 1560, Size 1584, Size 1608, Size 1632, Size 1656, Size 1680, Size 1704, Size 1728, Size 1752, Size 1776, Size 1800, Size 1824, Size 1848, Size 1872, Size 1896, Size 1920, Size 1944, Size 1968, Size 1992, Size 2016, Size 2040, Size 2064, Size 2088, Size 2112, Size 2136, Size 2160, Size 2184, Size 2208, Size 2232, Size 2256, Size 2280, Size 2304, Size 2328, Size 2352, Size 2376, Size 2400, Size 2424, Size 2448, Size 2472, Size 2496, Size 2520, Size 2544, Size 2568, Size 2592, Size 2616, Size 2640, Size 2664, Size 2688, Size 2712, Size 2736, Size 2760, Size 2784, Size 2808, Size 2832, Size 2856, Size 2880, Size 2904, Size 2928, Size 2952, Size 2976, Size 3000, Size 3024, Size 3048, Size 3072, Size 3096, Size 3120, Size 3144, Size 3168, Size 3192, Size 3216, Size 3240, Size 3264, Size 3288, Size 3312, Size 3336, Size 3360, Size 3384, Size 3408, Size 3432, Size 3456, Size 3480, Size 3504, Size 3528, Size 3552, Size 3576, Size 3600, Size 3624, Size 3648, Size 3672, Size 3696, Size 3720, Size 3744, Size 3768, Size 3792, Size 3816, Size 3840, Size 3864, Size 3888, Size 3912, Size 3936, Size 3960, Size 3984, Size 4008, Size 4032, Size 4056, Size 4080, Size 4104, Size 4128, Size 4152, Size 4176, Size 4200, Size 4224, Size 4248, Size 4272, Size 4296, Size 4320, Size 4344, Size 4368, Size 4392, Size 4416, Size 4440, Size 4464, Size 4488, Size 4512, Size 4536, Size 4560, Size 4584, Size 4608, Size 4632, Size 4656, Size 4680, Size 4704, Size 4728, Size 4752, Size 4776, Size 4800, Size 4824, Size 4848, Size 4872, Size 4896, Size 4920, Size 4944, Size 4968, Size 4992, Size 5016, Size 5040, Size 5064, Size 5088, Size 5112, Size 5136, Size 5160, Size 5184, Size 5208, Size 5232, Size 5256, Size 5280, Size 5304, Size 5328, Size 5352, Size 5376, Size 5400, Size 5424, Size 5448, Size 5472, Size 5496, Size 5520, Size 5544, Size 5568, Size 5592, Size 5616, Size 5640, Size 5664, Size 5688, Size 5712, Size 5736, Size 5760, Size 5784, Size 5808, Size 5832, Size 5856, Size 5880, Size 5904, Size 5928, Size 5952, Size 5976, Size 6000, Size 6024, Size 6048, Size 6072, Size 6096, Size 6120, Size 6144, Size 6168, Size 6192, Size 6216, Size 6240, Size 6264, Size 6288, Size 6312, Size 6336, Size 6360, Size 6384, Size 6408, Size 6432, Size 6456, Size 6480, Size 6504, Size 6528, Size 6552, Size 6576, Size 6600, Size 6624, Size 6648, Size 6672, Size 6696, Size 6720, Size 6744, Size 6768, Size 6792, Size 6816, Size 6840, Size 6864, Size 6888, Size 6912, Size 6936, Size 6960, Size 6984, Size 7008, Size 7032, Size 7056, Size 7080, Size 7104, Size 7128, Size 7152, Size 7176, Size 7200, Size 7224, Size 7248, Size 7272, Size 7296, Size 7320, Size 7344, Size 7368, Size 7392, Size 7416, Size 7440, Size 7464, Size 7488, Size 7512, Size 7536, Size 7560, Size 7584, Size 7608, Size 7632, Size 7656, Size 7680, Size 7704, Size 7728, Size 7752, Size 7776, Size 7800, Size 7824, Size 7848, Size 7872, Size 7896, Size 7920, Size 7944, Size 7968, Size 7992, Size 8016, Size 8040, Size 8064, Size 8088, Size 8112, Size 8136, Size 8160, Size 8184, Size 8208, Size 8232, Size 8256, Size 8280, Size 8304, Size 8328, Size 8352, Size 8376, Size 8400, Size 8424, Size 8448, Size 8472, Size 8496, Size 8520, Size 8544, Size 8568, Size 8592, Size 8616, Size 8640, Size 8664, Size 8688, Size 8712, Size 8736, Size 8760, Size 8784, Size 8808, Size 8832, Size 8856, Size 8880, Size 8904, Size 8928, Size 8952, Size 8976, Size 9000, Size 9024, Size 9048, Size 9072, Size 9096, Size 9120, Size 9144, Size 9168, Size 9192, Size 9216, Size 9240, Size 9264, Size 9288, Size 9312, Size 9336, Size 9360, Size 9384, Size 9408, Size 9432, Size 9456, Size 9480, Size 9504, Size 9528, Size 9552, Size 9576, Size 9600, Size 9624, Size 9648, Size 9672, Size 9696, Size 9720, Size 9744, Size 9768, Size 9792, Size 9816, Size 9840, Size 9864, Size 9888, Size 9912, Size 9936, Size 9960, Size 9984, Size 10000.

Requisition Links

Label	Order Seq	Planned	Span Days	Forecasted	Actual	Orig. Days	Days	Days Late	Weight Factor
REQ TO PROCUREMENT	15	26-AUG-2003	7	28-AUG-2003	28-AUG-2003	5	5		20
VENDOR BID RECEIVE	20	02-SEP-2003	30	04-SEP-2003		22	22		20
BID EVAL COMPLETE	25	02-OCT-2003	32	06-OCT-2003		22	22		20
CLIENT APPROVE VEND.	27	03-NOV-2003	16	05-NOV-2003		12	12		20
ISSUE PO	30	13-NOV-2003	16	21-NOV-2003		8	8		20

Baseline Estimate

Find Item ID: 110.31810000 Over 5
Group Description: FEINCE 8" (2,44m) HIGH, CHAIN LINK W/O BARBED WIRE
Qty. Title: FEINCEING Use Description For Accounts

PERFORMANCE BARCHART AND S-CURVE
SAMPLE-SUMMARY AT CSI LEVEL 1

BASELINE ESTIMATE - EARTHWORK AND CONCRETE

ARES CORPORATION
JOB NUMBER 44556
REPORT SAMPLE

SAMPLE PROJECT
AAAA INDUSTRIES
COST IN USD

PRISM SAMPLE-09010002-11-18-33
PAGE 1
DATA AS OF JUNE 20, 1999

QUANTITY	UNIT	TITLE	HOURS	EQUIPMENT	MATERIAL	LABOR	SUBCONTRACT	FREIGHT	TAX	OTHER	TOTAL
110.3120000	CUT, FILL & COMPACT	HAIL 800 FT (152.4m) 62B SCRAPER	390	0	0	14,949	0	0	0	0	14,949
110.3120000	STRUCTURAL EXCAVATION	ROCK, 70 CY	39	0	0	159	0	0	0	0	159
110.3120000	ENGINEERED FILL	70 CY	0	0	0	150	0	0	0	0	150
110.3120000	ED WIRE	0	0	0	0	530	0	0	0	0	530
110.3120000	8" (2,44m) HIGH, CHAIN LINK W/O BARBED WIRE	0	0	0	0	20,884	52,884	0	0	0	81,379
110.3120000	CONCRETE	0	0	0	0	5,248	0	0	0	0	5,248
						0	20,884	73,752	0	0	102,442

Schedule Activities

Find Activity ID: AS100
Description: Define System Requirements

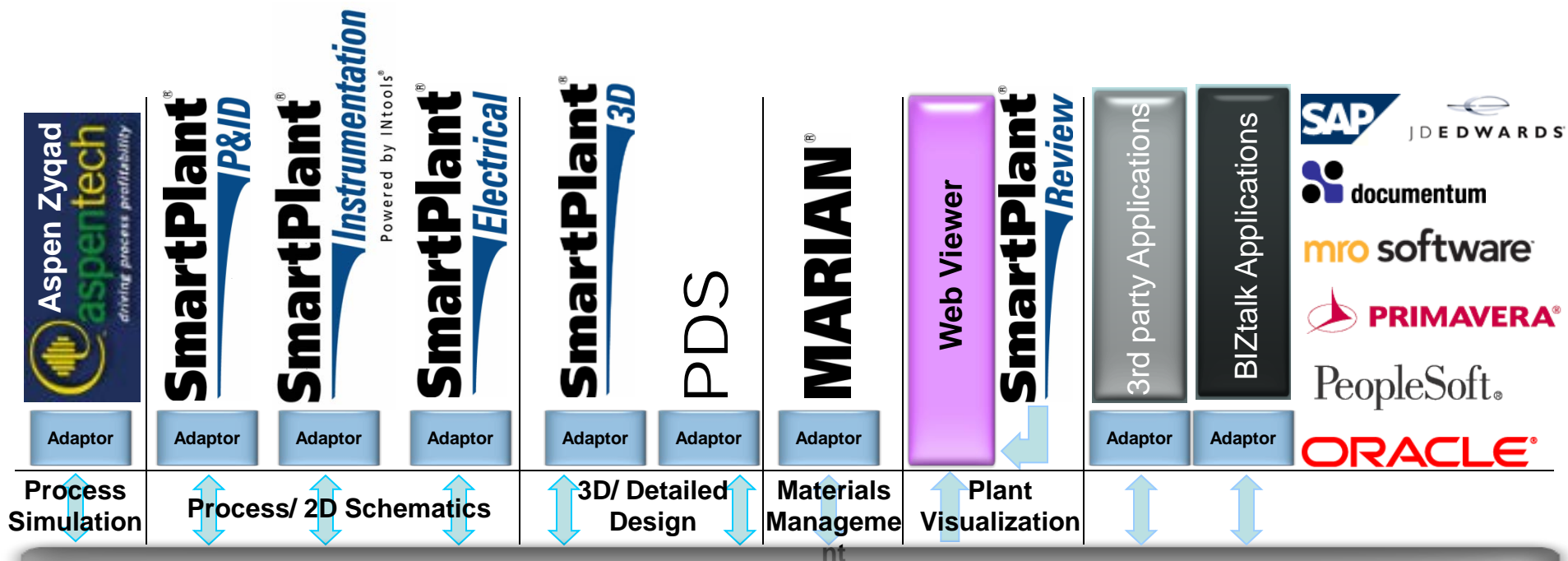
Milestone Name: Progress Weight: 3,960.00
% Complete: 100.00
Progress Curve: D

Calendar	Days	Early Schedule Start	Early Schedule Finish	Late Schedule Start	Late Schedule Finish	Total Float
Current	16	07/26/1999	08/04/1999	07/26/1999	08/04/1999	
Approved	16	07/26/1999	08/04/1999	07/26/1999	08/04/1999	

Schedule Activities - Resource Assignments

Add Resource ID: AS100 Define System Requirements

Resource ID	Description	Control Account ID	Qty.	Buy	Cost	Cost Budget	Qty. E.A.C.	Cost E.A.C.	C.E. Start	C.E. Finish	C.L. Start	C.L. Finish
AAAA Y31	Analyst Systems Automatic	AAAA11	0	0.00	1,760.00	0.00	1,760.00	05/07/1999	05/07/1999	05/07/1999	05/07/1999	05/07/1999
ATM ENG	Automation Systems Engineer	AAAA11	0	0.00	1,760.00	0.00	1,760.00	05/07/1999	05/07/1999	05/07/1999	05/07/1999	05/07/1999



SmartPlant[®] Foundation

Integration & Info Management

Document Management	Application Integration	Engineering Data Management	Workflow	Change Management
---------------------	-------------------------	-----------------------------	----------	-------------------

- Repository for documents & data
- Document & Data Workflow Management
- Authorizations
- History / Versioning / Revision Control

Data Exchange Mechanism

- Publish / Retrieve from design tools result in data exchange.
- Documents define scope of data exchange. For example a P&ID is retrieved however the data about all objects on the P&ID is exchanged.
- Changes / Data mismatches are handled through Integration To Do List.
- Integration To Do Lists are presented to the user in various formats, for example color coded P&ID display in SmartPlant 3D.

SmartPlant Instrumentation to SmartPlant Electrical Data Exchange



SmartPlant P&ID to SmartPlant Electrical Data Exchange



Retrieved:

Exchanger Equipment
ElectricalReqmt
ItemTag
Name

Mechanical Equipment
DriverRatedPower
ItemTag
Name
PowerAbsorbed

Details:

P&ID equipment types transferred are Exchangers, Mechanical Equipment, and Vessels

Only exchangers that are associated to bayonet electrical heaters are retrieved by SPEL

P&ID instruments will also transfer

YCoincidenceFactor
ZCoincidenceFactor
ZZCoincidenceFactor

• Reports +

NOTE: This diagram represents default, out-of-the-box data exchange. Configuration allows additional documents and data to be published and retrieved.

SmartPlant 3D Data Exchange

SmartPlant
3D

SmartPlant Foundation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print View Source

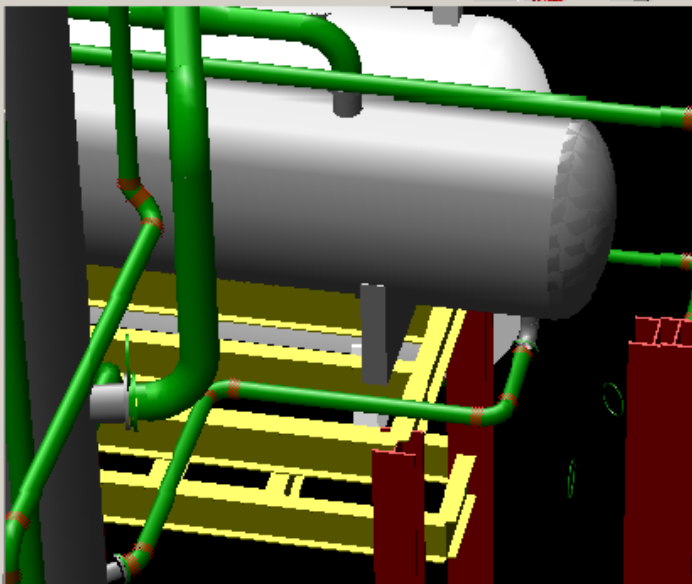
Address http://VisualizationViaTEF Go

SmartPlant
Foundation

File Framework Find Query View Window Help

ASGA,

- ProcessEqTypes1
 - Show Detail [6]
 - Heat Transfer Equipment
 - Material Transfer Equipment
 - Process Equipment Driver
 - Process Vessel
 - Find all Items [3]
 - C-103(PIDProcessEqu
 - D-117, Drum
 - PIDProcessEquipment
 - Solid Separation Equipment
 - Weighing Equipment
- ASGA(Plant)
- PipingComponentTypes1
- InstrumentProcessFunctions
- DocCategories



Markup

Properties

Alphabetic Categorized Show All

????????????????????????????	M4
Average Insulation Density	13
Cleaning Requirement	CC2
Coating requirement	Metallic coating
ConstructionStatus	New Construction
ConstructionStatus	Existing Construction
ConstructionStatus2	New
ConstructionStatus2	Recalibrate
CorrosionAllowance	1
Creation date	2/6/2003 2:09:31 PM
Description	Drum
DesignResponsibility	Contractor
EquipPrefix	D
EquipSeqNo	117
HTraceMediumTemp	101
HTraceRqmt	PHT
Insulation Material or Multi-layer composition	Calcium Silicate
Insulation Purpose	External Insulation
Insulation Purpose (lowest level)	Heat conservation
Insulation Purpose (middle level)	Heat conservation
Insulation Specification	CS-H
LC State	
Name	D-117
ProcEqTypeDescription	1 diameter, 1 chamber, elliptical head vertical drum
ProcessEqType1	Process Vessel
ProcessEqType2	Pressure Vessel

Config Query=ASGA, Config Create=ASGA, Effectivity Date: Now Default Action: None User: updateuser

Local intranet