

Customer Profile

Burns & McDonnell was started in 1898 and is a multidisciplinary engineering, architectural, construction and environment service firm. By its 50th anniversary (1948), the company had done nearly 2,100 projects worth about \$664 million. Burns & McDonnell has completed many hydroelectric, power plants and Aviation projects.

Contact Details

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

Project Statement

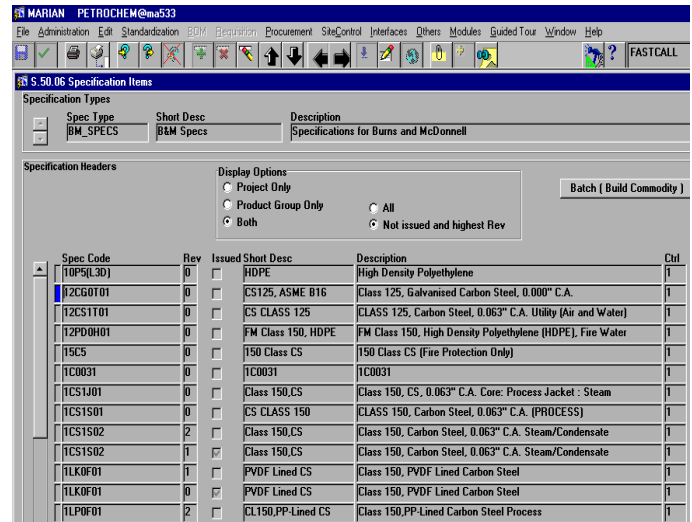
Burns & McDonnell / Intergraph, USA were looking for creating material libraries including groups, parts, Commodity Codes and specs in MARIAN using Commodity Code rules for 3D Modeling and later procurement.

Rolta Solution

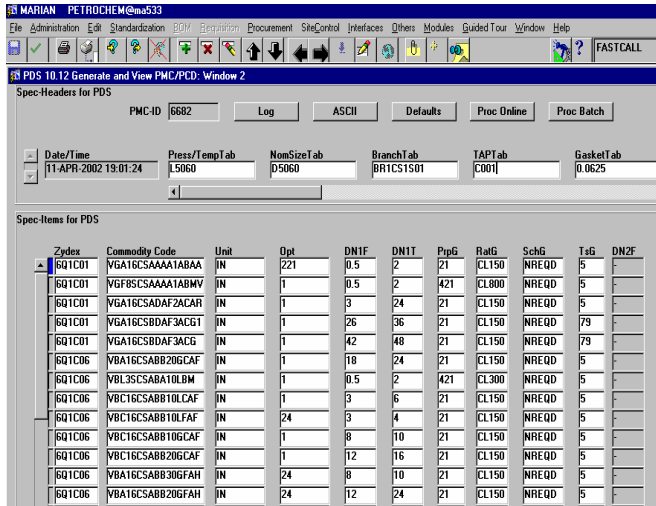
Rolta built the Marian Material Life Cycle Library and created the commodity codes and specs into MARIAN database from paper specifications provided.

This project consisted of the following inputs as paper Piping specifications to be created into Marian Database:

- Carbon Steel specifications : 10 Nos.
- Stainless Steel specifications : 5 Nos.
- Plastic specifications : 6 Nos.
- Jacketed specifications : 2 Nos.
- Alloy specifications : 4 Nos.
- Lined specifications : 3 Nos.



Spec Code	Rev	Issued	Short Desc	Description	Chk
10P5(L3D)	0		HDPE	High Density Polyethylene	1
12CG0101	0		CS125, ASME B16	Class 125, Galvanised Carbon Steel, 0.000" C.A.	1
12CS1101	0		CS CLASS 125	CLASS 125, Carbon Steel, 0.063" C.A. Utility (Air and Water)	1
12PD0H01	0		FM Class 150, HDPE	FM Class 150, High Density Polyethylene (HDPE), Fire Water	1
15CS	0		150 Class CS	150 Class CS (Fire Protection Only)	1
1C0031	0		1C0031	1C0031	1
1CS1J01	0		Class 150,CS	Class 150, CS, 0.063" C.A. Core: Process Jacket : Steam	1
1CS1S01	0		CS CLASS 150	CLASS 150, Carbon Steel, 0.063" C.A. (PROCESS)	1
1CS1S02	2		Class 150,CS	Class 150, Carbon Steel, 0.063" C.A. Steam/Condensate	1
1CS1S02	1		Class 150,CS	Class 150, Carbon Steel, 0.063" C.A. Steam/Condensate	1
1LK0F01	1		PVDF Lined CS	Class 150, PVDF Lined Carbon Steel	1
1LK0F01	0		PVDF Lined CS	Class 150, PVDF Lined Carbon Steel	1
1LP0F01	2		CL150,PP-Lined CS	Class 150,PP-Lined Carbon Steel Process	1



Zydex	Commodity Code	Unit	Opt	DN1F	DN1T	PrpG	RatG	SchG	TsG	DN2F
6Q1C01	VBAT6CSAAA1ABAA	IN	221	0.5	2	21	CL150	NREQD	5	-
6Q1C01	VBFB6CSAAA1ABMV	IN	1	0.5	2	421	CL800	NREQD	5	-
6Q1C01	VBAT6CSADAF2ACAR	IN	1	3	24	21	CL150	NREQD	5	-
6Q1C01	VBAT6CSBDAF3ACE1	IN	1	26	36	21	CL150	NREQD	79	-
6Q1C01	VBAT6CSBDAF3ACG	IN	1	42	48	21	CL150	NREQD	79	-
6Q1C06	VBAT6CSABB20GCAF	IN	1	18	24	21	CL150	NREQD	5	-
6Q1C06	VB13CSABA10LBM	IN	1	0.5	2	421	CL300	NREQD	5	-
6Q1C06	VB13CSABB10LCAF	IN	1	3	6	21	CL150	NREQD	5	-
6Q1C06	VB13CSABB10LFAF	IN	24	3	4	21	CL150	NREQD	5	-
6Q1C06	VB13CSABB10GCAF	IN	1	8	10	21	CL150	NREQD	5	-
6Q1C06	VB13CSABB10GFAF	IN	1	12	16	21	CL150	NREQD	5	-
6Q1C06	VBAT6CSABB30GFAH	IN	24	8	10	21	CL150	NREQD	5	-
6Q1C06	VBAT6CSABB20GFAH	IN	24	12	24	21	CL150	NREQD	5	-

Benefits to Customer

The customer got all their Material libraries built in MARIAN system for their work on existing Project and this resulted in project being completed on time.

Further, the customer could use this database for new projects and create piping specs out of MARIAN for 3D Modeling & Material Take-Off (MTO).

The following activities were involved.

- Creating a basic Marian database structure
- Defining commodity code rules
- Commodity code generation
- Creating specification in Marian, which can be directly taken into PDS
- Report generation based on the client format.
- Idents generation for downstream activity namely Procurement, Requisition, Site control activity through other Marian Modules.