



CONSTRUCTION OWNERS ASSOCIATION OF ALBERTA

FULL COMPANY NAME: Jacobs Industrial

CEO/COO OR DESIGNEE:

Sandy MacElheron
(Print/Type Full Name)


(Signature)

Date: April 3, 2008

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PREPARER:

Jason Nixon
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Date: April 3, 2008

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This submission is for (please check one):

Use Separate Form for Each Submission

Award Category	Check
Safety Best Practices Implementation and Performance Improvement Award – LARGE COMPANY OR ORGANIZATION (see next page)	✓
Safety Best Practices Implementation and Performance Improvement Award – SMALL COMPANY OR ORGANIZATION (see next page)	
Safety Leadership and Innovation Award	
Best Practice Implementation Award:	
Best Practice Innovation Award	

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Members of the Committee,

Please accept our application for the COAA Best Practice award for the; “Best Implementation” of the COAA Best Practice in the area of Workforce Development, specifically Workforce Planning.

Jacobs has taken the best practice of COAA and embraced the concept of Workforce Planning. We have implemented the process on two of its current projects with vigor and determination to give our clients the best value added service.

Thank you in advance for your time and consideration.

In September 2005, Jacobs set out to practically implement the ideology of COAA’s Workforce Planning on a major project. Jacobs brought on Workforce Planning champions and beginning to set in motion what soon became a corporate policy of Jacobs over North America.

Jacobs has been actively engaged in Workforce Planning from its participation in COAA’s Workforce Planning Committee to using the concept on now four projects. Jacobs used its lessons learned to boost itself to an eighty seven percent (Gold Status) by a audit ordered by client. We have succeeded in producing work packages and having them completed by the field, reviewed and handed in complete. We have progressed, monitored and used these packages to monitor performance to improve our internal practices and share our knowledge with our industry partners.

Regardless of the board’s decision we would like to thank COAA, the Workforce Planning Committee and our industry peers for the support and advice in making the Workforce Planning concept a reality.



Sandy MacElheron.
Workforce Planning Manager, Jacobs

Question #1

Clearly describe which COAA Best Practices or other best practices you have effectively implemented. Include evidence (data) that illustrates and supports the level of performance and degree of program implementation. The evidence should indicate both the degree of best practice implementation and the impact that this has had on improving project execution. For example, if you have implemented a program to improve workforce planning, the submission should include data on the training and systems used and the effect this has had on the effectiveness of construction execution at the workforce and/or productivity.

- 1. COAA Best Practices recommends hiring dedicated Workforce Planners who have a minimum of five to seven years experience and at least three to five years supervisory experience with a basic understanding of scheduling and estimating.**

Jacobs has hired a total of fourteen dedicated Workforce Planners who easily qualify for the suggested skill set. All of our planners have taken the COAA endorsed Workforce Planning fundamentals SAIT training, we have also invested heavily in our own training programs to further educate our Workforce Planners and ensure we have developed the best workforce planners in the industry. Please see attachment 1

- 2. COAA best practices recommend that the project schedule be incorporated in Workforce Planning initiatives. Work Packages should be able to roll up into scheduled activities for the project to allow for proper planning and tracking of necessary project activities.**

Jacobs has incorporated a five week look ahead where specific Work Packages are recorded as they are coming for execution. By placing Work Packages on the five week look ahead we can prepare for any material constraints, scaffold installation, and equipment allocation and track a project from a high level by analyzing work packages. Please see attachment 2

- 3. COAA Best Practices recommend the development of Workforce Planning packages that make up about one shifts worth of work for a crew, about 1000 hours work. Packages are to be developed from a field perspective building experience and lessons learned worked into every package.**

Jacobs Workforce Planning group has created Foreman Installation Work Packages (FIWP) that are field smart packages of about six hundred to twelve hundred hours in duration. All packages must clear a multi level sign off including; Superintendent, General Foreman, QAQC, and Safety to ensure that information remains accurate and does not become static. Each package created has earned hour values that are reflective of the budget and estimate, these packages are also coded and field actual hours tabulated so we have a micro project with every package that reflects productivity to a crew level, this enables supervisors to make informed decisions about staffing decisions. Every package is progressed to great detail on a component task level allowing management to clearly see issues affecting progress and schedule. Please see attachment 3

Jacobs field supervision has facilitated daily progress meetings with general foreman where they review the progress on released packages with a tool called Pack Track, all setbacks are addressed with representatives from engineering, QAQC and safety at these meetings. With all parties meeting daily we address and resolve all issues quickly.

With this detail we can easily monitor overall progress and head of negative trend before they become costly mistakes leading to cost and schedule overruns.

4. COAA Best Practices recommend that Workface Planners utilize specific coordinators for Scaffold and Equipment.

Jacobs has developed a data base that tracks all scaffolds requests that are initiated by Workface Planners when they build their packages, all needed information on the specific scaffold is held both in the package and the database. When a package comes up in the five week look ahead, this triggers the scaffold request to be released to the field with “needed by date”. The scaffold is erected a week before the work in this work package commences. The scaffold stays active in the system for the duration of one week then a automated notice requires the scaffold coordinator to check the scaffold for possible dismantle. If the scaffold is not required the coordinator can check the coordinates in the database for other submitted requests. All scaffold requests and material are closely monitored.

Jacobs is currently developing an equipment management database system that allows Workface Planners to allocate equipment for the individual Work Packages.

5. COAA Best Practices recommend that Workface Planning be written into all construction contracts including roles and responsibilities of both Contractor and Owners.

Jacobs has made it a standard practice to write in the obligations of itself, the client and subcontractors hold in the effort to have a successful implementation of Workface Planning on projects where the client has supported the Workface Planning concept. The expectations are modeled as to COAA’s Best Practices and the Best Practices are the measure of the performance.

6. COAA Best Practices recommend that Contractors initiate and coordinate Workface Planning independent audits to ensure that the Workface Planning efforts are consistent to industry expectations.

Jacobs have arranged and participated in client ordered Work Planning audits and given full and unbarred access to auditors to write full and complete evaluations of Jacobs Workface Planning initiatives and will continue to adhere to this practice. In the last client ordered Workface Planning audit earned a gold status in its implementation of COAA’s Workface Planning Best Practice. Please see attachment 4.

Question #2

Clearly describe any improvements your company or organization made to the best practices during or after implementation of the best practice. How have these improvements been incorporated into the COAA Best Practice documents or shared with the industry?

1. The improvements that Jacobs has made to COAA's Best Practices are outlined below;
 - We have developed standard work package formats which have been passed onto SAIT for support of their Workface Planning training program.
 - We have had extensive experience in the practical implementation of Workface Planning and have accumulated large amounts of lessons learned. We have shared our experiences freely with the Workface Planning Committee and our industry peers.
 - We have used Workface Planning specific software; (Construct Sim) extensively on three projects and shared all of our challenges and victories with COAA's Workface Planning committee and any others who ask or will listen.
 - We have developed Databases specifically to address progressing of Workface Planning packages; we have used these on our projects to date and shared our experiences with work package specific performance with members of COAA.
 - We have developed an intensive scaffold database that has specifically designed to control scaffold in a Workface Planning environment. This database's principals have been shared with many industry peers and with members from COAA's Workface Planning Committee.
 - Jacobs believes in collaboration and sharing our experiences with the industry we are proudly a part of. We have taken a COAA Best Practice and developed it within the COAA framework to be working and growing part of our business.

Attachments and Other Demonstrations

Attachment 1

- Exert taken from the April 4, 2007 Petro Canada Ordered Audit;
“Jacobs Sulfur Block Workface Planning Assessment”

“Regarding training their workface planners, Jacobs should be commended. Jacobs has trained 8 of the 13 workface planners that will be working for Jacob and Chemco by the end of June and the remainder is scheduled to complete training by the middle of July.” Lloyd Rankin

Jacobs went on to train over fourteen Workface Planners at SAIT's; “Workface Fundamentals Course” over the last year and continues to enroll students regularly.

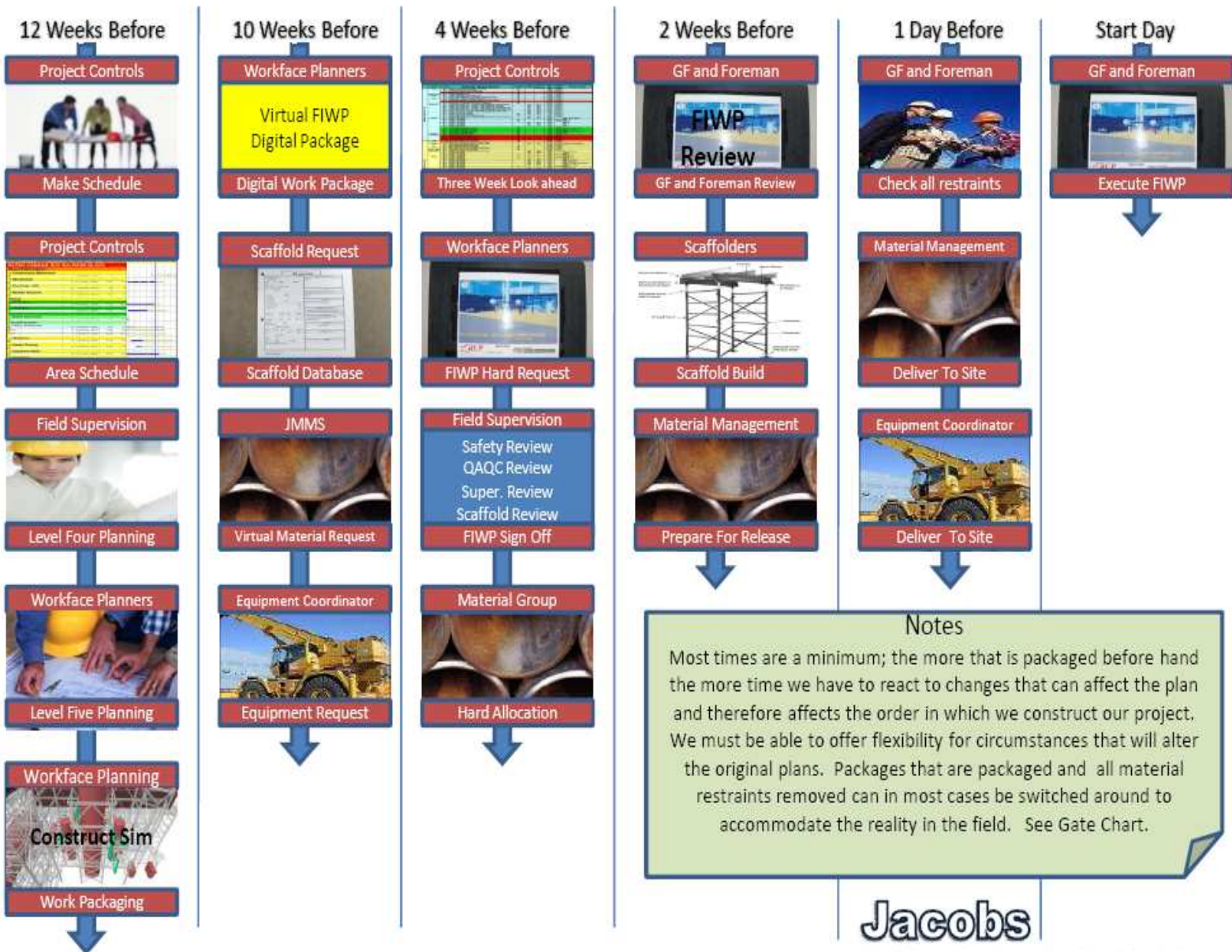
Attachment 2

Work Package Schedule Tools

Below is the Pre release plan for work packages, this is a gate system Jacobs uses for control of FIWP's.



FIWP Pre - Release Plan

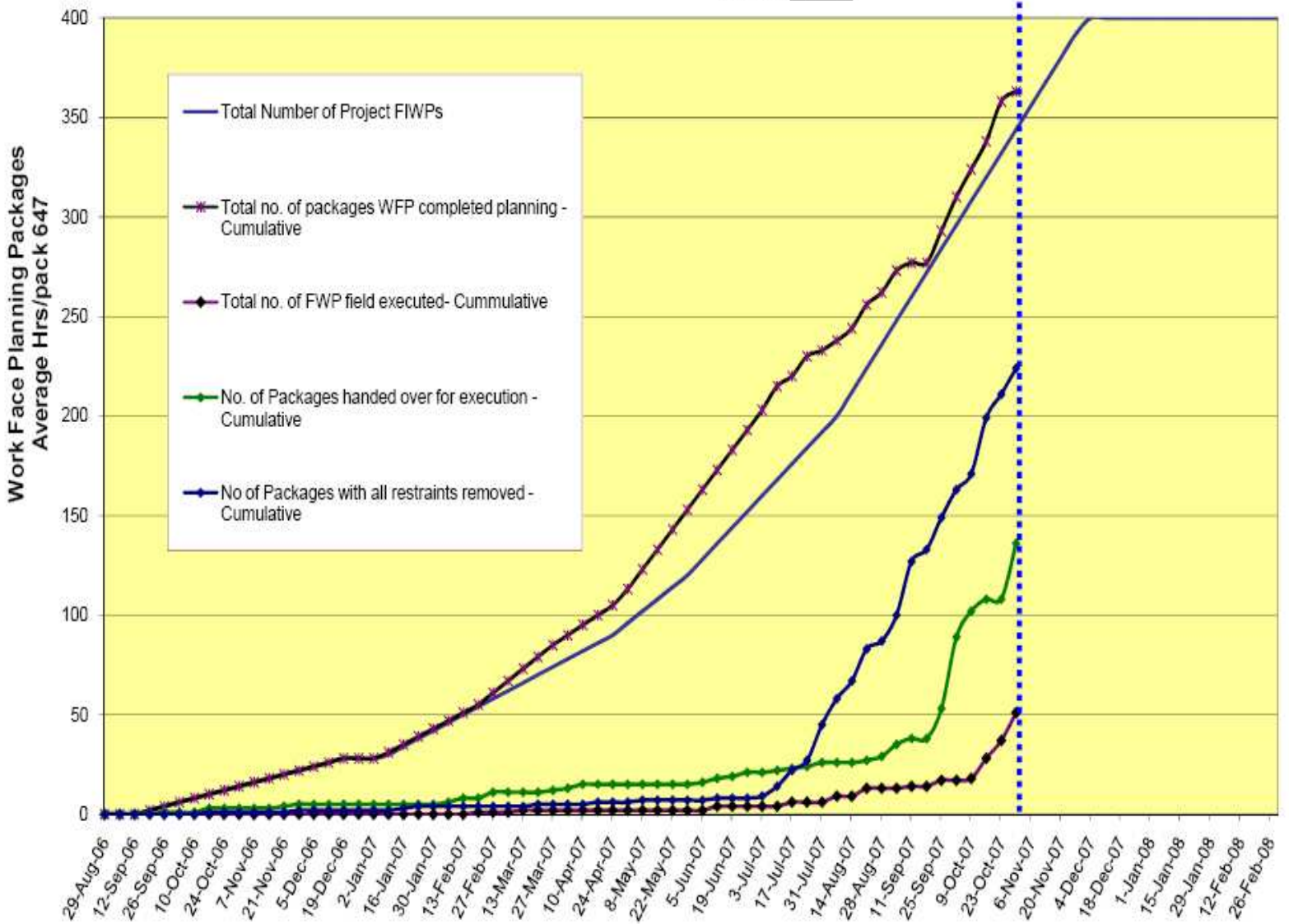


Below is an example of Jacobs; “Key Quantities Workface Planning Curve”. This curve demonstrates how many work packages have been created to date, how many have no material restraints, how many have been released to the field and how many have been completed to date.



Key Quantities Workface Planning Packages Curve

30 Oct 2007



Below is sample of Jacobs; "Five Week Schedule Attainment". This contains information on current and upcoming Work Packages; mainly a tool used to identify which Packages are upcoming on the project schedule. Armed with this information we can prepare scaffold, equipment and any material restraints for upcoming work packages.

5 Week Schedule Attainment : Oct 9 - Nov 8, 2007										
	Crew	CWA	Activity Description	Complete	Started	Work In Progress	Start Date	Finish Date	Remarks	
Week 1 (Oct 9 - 13)	Civil	85-4	General Architectural work @ IO Building	Yes			7-Aug	30-Oct		
		86-4	Install Central Vao @ I/O Bldg.	Yes			4-Sep	28-Oct		
		87-9	Complete Sulphur Tank Containment	Yes			13-Aug	28-Oct		
		Fire Water	Backfill - Fire Water P/W T.P 1 (North)	Yes			1-Oct	23-Oct		
	Comp. Floor	86-4	Install Computer Floor	Yes			9-Oct	13-Oct		
	NWS	86-4	Install Claddings @ Sub Station # 8	Yes			17-Aug	3-Nov		
		87-4	Install Wall Cladding @ Combustion Air Blower Bldg.	Yes			13-Aug	3-Nov		
	Steel	86-2	Install Misc. Steel In Amine Pump house	Yes			22-Sep	10-Oct		
		87-6	Complete Converter Structural Steel #18 South erection	Yes			13-Sep	12-Oct		
	Eleo./Inst.	87-1	Erect upper WAB # 1 Structural Steel	Yes			9-Oct	13-Oct		
		87-8	Complete N-3 Pipersack Steel work & Pathways	Yes			13-Oct	31-Oct		
		85-1	Install Eng. Cable Tray / Conduit / Light Fittings @ S.W. Stripper (N)		Yes	W.I.P	29-Jul	30-Nov		
		85-2	Install Eng. Cable Tray / Conduit / Light Fittings @ S.W. Bldg.		Yes	W.I.P	17-Sep	30-Nov		
		85-3	Install Eng. Cable Tray / Conduit / Light Fittings @ S.W. Stripper (S)		Yes	W.I.P	29-Jul	30-Nov		
		86-1	Install Eng. Cable Tray / Conduit / Light Fittings @ Amine Regen. Area		Yes	W.I.P	29-Jul	30-Nov		
		86-2	Install Eng. Cable Tray / Conduit / Light Fittings @ Amine Pump Bldg.		Yes	W.I.P	4-Sep	30-Nov		
		86-3	Install Cable Tray / Conduit / Light Fittings @ Carbon Filter Area		Yes	W.I.P	24-Sep	30-Nov		
		86-4	Cable pull - Below ceiling		Yes	W.I.P	1-Oct	30-Nov		
		86-4	Install Lighting @ I/O Bldg.	96%	Yes	W.I.P	1-Oct	30-Nov		
		86-4	Install Cable Tray below Computer floor	Yes			9-Oct	13-Oct		
		Piping	87-1	Install Eng. Cable Tray / Conduit / Light Fittings @ Furnace Area North		Yes	W.I.P	23-Jul	30-Nov	
	85-1		Install LB Piping		Yes	W.I.P	9-Oct		Pkgs. 18,28, 8508-2	
	86-1		Install LB Piping	Yes			9-Oct	20-Oct	Pkg. 11	
	86-1		Install LB Piping	Yes			13-Oct	7-Nov	Pkg. 20	
	86-2		Install LB Piping		Yes	W.I.P	9-Oct		Pkg. 1	
	87-1		Install LB Piping		Yes	W.I.P	9-Oct		Pkg. 4	
	87-2		Install LB Piping		Yes	W.I.P	9-Oct		Pkg. 4	
	87-2		Install Bubble Collie	Yes			9-Oct	13-Oct		
	86-1		Completed Packages Area 86-1	Yes			1-Oct	13-Oct	Pkgs 2, 23, 25, 28, 29	
	86-2		Completed Packages Area 86-2	Yes			1-Oct	13-Oct	Pkgs 11, 12, 15	
	87-7		Completed Packages Area 87-7	Yes			1-Oct	13-Oct	Pkgs 1, 5, 12, 13, 14, 40	
	86-6		Completed Packages Area 86-6	Yes			1-Oct	13-Oct	Pkg 3	
Painting	86-2		Paint Amine Storage tank	Yes			9-Oct	28-Oct		
Refractory	87-6		Install Refractory @ 87C12 / 13 / 23 - Cat. Converters	70%	Yes	W.I.P	9-Oct	15-Nov	C12 & C13 Complete	
	87-6	Install Refractory @ Incinerator 87-F2	Yes			6-Sep	22-Oct			
	87-6	Install Refractory @ Stack 87-F3	Yes			13-Sep	22-Oct			
	87-3	Install Refractory @ Reaction Furnace 87-F12	16%	Yes	W.I.P	8-Sep	18-Nov			
Week 2 (Oct 14 - 20)	Civil	Fire H2O	Exoavate / Hydrovaco Tie Points 4	Yes			16-Oct	18-Oct		
		Fire H2O	Install Pipe & Weld out joints for Tie Points 4	Yes			20-Oct	20-Oct		
	Steel	87-4	Erect Blower Building Interior Platform Steel		Yes	W.I.P	16-Oct	16-Nov	Grating to be installed	
		87-4	Erect East Wall Blower Building	Yes			16-Oct	21-Oct		
	NWS	87-4	Erect West Wall Blower Building	Yes			16-Oct	21-Oct		
		86-6	Erect North (Small) Wall Substation Building	Yes			16-Oct	21-Oct		
	HVAC - ARPI	86-4	Complete Ductwork IO Building	Yes			16-Oct	2-Nov		
	Eleo./Inst.	86-4	Cable pull - Below computer floor @ I/O Bldg.		Yes	W.I.P	14-Oct	22-Dec		
		85-1	Install LB Piping		Yes	W.I.P	9-Oct		Pkgs 16, 20, 29	
		85-1	Install S.B Piping		Yes	W.I.P	9-Oct		Pkg 21	
		85-2	Install LB Piping	Yes			9-Oct	20-Oct	Pkg 19	
		85-3	Install LB Piping		Yes	W.I.P	9-Oct		Pkgs 3, 5,14	
		85-3	Install LB Piping	Yes			9-Oct	20-Oct	Pkgs 8,11	
		85-6	Install LB Piping		Yes	W.I.P	9-Oct		Pkgs. 1, 2, 3, 4	
		86-1	Install LB Piping		Yes	W.I.P	9-Oct		Pkg. 4, 16, 18, 42	
		86-1	Install S.B Piping		Yes	W.I.P	9-Oct		Pkg. 22, 38, 57	
		86-2	Install LB Piping		Yes	W.I.P	9-Oct		Pkgs 1, 12, 15, 16, 21, 30, 31	
		86-2	Install S.B Piping		Yes	W.I.P	9-Oct		Pkg's 20, 21, 28	
		86-2	Install S.B Piping	Yes			9-Oct	20-Oct	Pkg 20	
		87-1	Install LB Piping		Yes	W.I.P	9-Oct		Pkg's 4, 31, 33	
		87-1	Install S.B Piping		Yes	W.I.P	9-Oct		Pkg 32	
		87-2	Install LB Piping		Yes	W.I.P	9-Oct		Pkgs 4, 8	
		87-2	Install LB Piping	Yes			9-Oct	20-Oct	Pkg 2	
		86-1	Install S.B Piping	Yes			9-Oct	20-Oct	Pkg 3	
		86-1	Install LB Piping	Yes			9-Oct	20-Oct	Pkg 6,7,19,24,27,30,31,40	
		86-2	Install LB Piping	Yes			9-Oct	20-Oct	Pkg 18	
		86-6	Install LB Piping	Yes			9-Oct	20-Oct	Pkg 1,3	
		87-1	Install LB Piping	Yes			9-Oct	20-Oct	Pkg 2,4,7,8,10,99	
		Piping	87-4	Set 87Y-1A Combustion Air Blower Filter (By Piping Crew)	Yes			12-Oct	14-Oct	
			87-4	Set 87Y-1B Combustion Air Blower Filter (By Piping Crew)	Yes			12-Oct	14-Oct	
			87-4	Set 87Y-2A Combustion Air Blower Filter (By Piping Crew)	Yes			12-Oct	14-Oct	
			87-4	Set 87Y-2B Combustion Air Blower Filter (By Piping Crew)	Yes			12-Oct	14-Oct	
Painting		Area 65	Start Painting work Area 65		Yes	W.I.P	22-Oct	18-Mar		
	Area 66	Start Painting work Area 66		Yes	W.I.P	9-Oct	18-Mar			
	Area 67	Start Painting work Area 67		Yes	W.I.P	22-Oct	18-Mar			
Refractory	87-1	Install Refractory @ 87E12 WHB	30%	Yes	W.I.P	22-Oct	18-Dec			
	87-1	Install Refractory @ 87F11Main Acid Gas Burner	60%	Yes	W.I.P	14-Oct	18-Nov			
	87-6	Install Refractory @ Superheats Reactor 87C-3	Yes			16-Oct	8-Nov			
	87-8	Install Refractory - WHB 87E-12	30%	Yes	W.I.P	22-Oct	18-Dec			

Attachment 3

“Pack Track FIWP Status Report ;(database report)”

Below is Jacobs; “Pack Track” which reports the status of every released work package released to the field for execution. Pack Track enables construction management to track percentage complete in both quantities and earned man hours. Pack Track tracks actual hours and compares them to earned hours for each and every work package which rolls up into the budget base line; this in turn gives us a performance factor for every work package.

Work Pack	Start Date	Compl Date	ISO (Lf)				Equiv Man Hours				Budgeted Man Hours				Weid (inc)				Actual Hrs	Eq PF	Bud PF			
			Total	Compl	(%)	Week	(%)	Total	Compl	(%)	Week	(%)	Budget	Earned	(%)	Week	(%)	Total				Compl	(%)	Week
ER-L-6501-020-65230 65C-8 Condensate Station Large Bore Piping	05-Jun-07		226	114	50		387	204	53		485	370	76		52	47	91		574	0.36	0.65			
ER-L-6501-023-65230 65E-2 & 65C-2 Large Bore Piping	25-Aug-07	10-Dec-07	165	165	100		522	522	100		470	470	100		89	89	100		796	0.66	0.59			
ER-L-6501-024-65246 65E-2 & 65C-2 Trim & Small Bore Piping	05-Jun-07		91	42	46		100	45	45		291	136	46		20	5	23		263	0.17	0.51			
ER-L-6501-025-65230 65C-1 Blow Down & Potable Water Lg Bore Piping	05-Jun-07		158	55	35	24	15	445	148	33		463	259	56	107	23	239	151	63	63	26			
ER-L-6501-026-65230 Large Bore Piping to South of Vessel 65C-2	05-Jun-07		216	120	56	6	3	733	429	58		475	316	67	8	2	0	0	0	584	0.73	0.54		
ER-L-6501-027-65246 Small Bore Low Pressure Condensate to 65C-1	05-Jun-07		353	47	13			386	58	15		526	77	15			56	25	45					
ER-L-6501-028-65246 Small Bore Utility Lines for Station North of 65C-	14-Nov-07	20-Dec-07	202	202	100			192	192	100		417	417	100			82	82	100	482	0.40	0.87		
ER-L-6501-029-65230 65E-2 Module Tie-in Large Bore Piping	10-Jun-07		227	173	77			566	438	77		436	436	100			181	181	100	1231	0.36	0.35		
ER-L-6501-030-65230 65C-8B Steam, Condensate & Blow Down Lg Bore	04-Sep-07	08-Jan-08	184	184	100			302	302	100		428	428	100			40	40	100	499	0.61	0.86		
ER-L-6501-031-65230 Large Bore Process Piping to Vessel 65C-2	03-Oct-07	06-Dec-07	114	114	100			145	145	100		365	365	100			122	122	100	772	0.19	0.47		
ER-L-6501-032-65230 Large Bore Piping to Condensate Flash Drum 67C-	05-Aug-07		276	193	70	11	4	557	410	74		741	426	57	28	4	295	104	35	0	0	527	0.78	0.81
ER-L-6501-033-65246 Sm Bore Low Pressure Piping Around Vessel 67C-	08-Mar-07		537	364	68	51	9	510	346	68		1004	929	93	119	12	96	80	84	14	15	1058	0.33	0.88
ER-L-6501-034-65246 67C-3 Slight Glasses & Small Bore Piping	21-Nov-07	29-Nov-07	31	31	100			30	30	100		60	60	100			0	0		74	0.40	0.81		
ER-L-6501-035-65246 Small Bore Chemical Piping South of Vessel 67C-8	05-Aug-07		91	29	32			87	27	32		310	133	43			25	14	56	66	0.41	2.02		
ER-L-6501-036-65230 North of Sour Water Pump Building Piping to Strip	05-Jun-07		173	102	59			474	282	60		400	360	90			201	201	100	766	0.37	0.47		
ER-L-6502-001-65230 PW Piping to 65E-4 & 14 Outlets	24-Sep-07	10-Dec-07	180	180	100			368	368	100		349	349	100			80	80	100	1098	0.34	0.32		
ER-L-6502-002-65230 65E-4 & 14 Cooler Inlet	02-Oct-07	29-Nov-07	270	270	100			458	458	100		417	417	100			94	94	100	488	0.94	0.85		
ER-L-6502-003-65230 PW Piping to 65E-3 Cooler	10-Jun-07		161	19	12	3	2	297	36	12		337	24	7	2	1	100	0	0	0	0			
ER-L-6502-004-65230 PW Piping to 65E-13 Cooler	05-Jun-07		175	20	11	3	1	331	39	12		394	30	8	4	1	82	0	0	0	0			
ER-L-6502-005-65246 Sour Water Small Bore	19-Apr-07	13-Nov-07	745	745	100			845	845	100		1321	1321	100			201	201	100	445	1.90	2.97		
ER-L-6502-006-65246 Sour Water Pump Building Small Bore	01-May-07		598	292	49			639	312	49		1376	861	63			169	96	57	364	0.86	2.37		
ER-L-6502-007-65230 Sour Water Building Large Bore South #1	22-Aug-07	14-Nov-07	111	111	100			190	190	100		290	290	100			30	30	100	166	1.14	1.74		
ER-L-6502-008-65230 Sour Water Building Large Bore South #2	10-Jul-07	10-Dec-07	113	113	100			250	250	100		423	423	100			57	57	100	454	0.55	0.93		

Attachment 4

Excerpt taken from the April 6, 2007 Petro Canada Ordered Audit;
“Jacobs Sulfur Block Workface Planning Assessment”

The workface planning system Jacob has developed is consistent with the COAA model. The first assessment was conducted prior to significant execution of work packages but the system itself was considered effective. There has been a significant increase in the number of workface planners since the last assessment and the workface planning system appears to have progressed since that assessment

Lloyd Rankin

Below is excerpts taken from the June 6, 2007 Workface Planning client ordered audit, where Jacobs qualified for a gold rating for its implementation of Workface Planning.

**COAA WORKFACE PLANNING SCORECARD
PROJECT DEMOGRAPHICS**

Total Project Description:	Sulphur Block RCP 1.1 Petro Canada		
Type of Facility, e.g. Mining, in situ:	De-sulphurizing		
Areas covered by Assessment, e.g. discipline, CWP:	Pipe, Steel, Equipment		
Owner:	Petro Canada	Location:	Sherwood Park
Project Budget:	\$300 million	Field Peak Manpower:	400
Construction Start Date:	November 1 2006	Project Completion Date:	March 30 2008
Prime Contractors:	Jacobs		
Audit Date:	June 6 2007		
Auditors:	Lloyd Rankin		

b) If condition a) is met then Gold is awarded for an average score of 120 or greater,

Scorecard Summary

Field Work Package:	Score: <u>58</u> /70 =
<u>83</u> %	
Planners:	Score: <u>22</u> /25 =
<u>88</u> %	
CWP Release Plan and Approvals:	Score: <u>10</u> /10 =
<u>100</u> %	
FWP Release Plan and Approvals:	Score: <u>13</u> /15 =
<u>87</u> %	
Integration and Coordination of FWP:	Score: <u>27</u> /30 =
<u>90</u> %	
 Total Score:	 <u>130</u> /150 = <u>-</u>
<u>87</u> %	