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Controlled Document

Quest CCS Project

General Arrangement Drawings / Plot plans –Final

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Revision History

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01	2013-06-12	Draft for Review	S. Peplinski	Hironmoy Mukherjee Robert Simms Ravi Subraya Irina Ward Allen Miller Chris Charbonneau Hermann Krohn	
02	2013-11-19	Issued for Approval	S. Peplinski	Hironmoy Mukherjee Robert Simms Ravi Subraya Irina Ward Allen Miller Chris Charbonneau David Hope-Johnstone	S. Peplinski
03	2013-11-20	Approved			S. Peplinski
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Signatures for this revision

Date	Role	Name	Signature or electronic reference (email)
2013-11-20	Originator	S. Peplinski	
	Reviewer		
	Approver	S. Peplinski	https://knowledge.shell.ca/livelink/livelink.exe/open/90014866

Summary

Plot Plans, Issued for construction

General Arrangement Drawings / Plot plans –Final		03
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Keywords

Capture, compression, pipeline, wells, HMU

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1. INTRODUCTION

Purpose of this document is to document the Issued for Construction plot plans for the Capture and Pipeline scopes on Quest. These version are issued for construction and reflect the Shell TA and engineering contractor input from Fluor and Toyo respectively. These final versions also reflect input from construction, operations, HSE and maintenance from 30%, 60% and 90% model reviews.

2. PLOT PLANS

Issued for construction plot plans are filed in livelink. As-Built versions will be filed after mechanical completion in late 2014.

2.1. Scotford HMU Plot plans

HMU 1 & 2 plot plans for areas 241 and 242

1. 240.0000.000.044.001 - HYDROGEN MANUFACTURING UNIT OVERALL PLOT PLAN
2. 240.0000.000.044.008 - HYDROGEN MANUFACTURING UNIT HMU 1 AND 2 ABSORBERS ELEVATION VIEWS

HMU 3 plot plan for areas 440:

1. 440.0000.000.044.001 - PLOT PLAN HYDROGEN MANUFACTURING - UNIT 440-441-443

2.2. Utility Area plot plans

Utility area plot plans for Expansion 1 utility areas :

1. 485.0000.000.076.006 - MODULE INDEX UNIT 485 EXPANSION OFFSITES WORK NATIVE

Utility area plot plans for baseplant utility areas :

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1. 285.0311.000.076.003 - UNIT 285 MODULE DRAWING KEY PLAN INTERCONNECTING PIPERACK FOR UNIT 246 UTILITIES
2. 285.0311.000.076.006 - UNIT 285 ABOVE GROUND PIPING DRAWING KEY PLAN INTERCONNECTING PIPERACK FOR UNIT 246 UTILITIES

1.1. Capture Unit Plot plans

Main Capture Unit plots plans for plant areas 246,247 & 249:

1.2. Pipeline Plot Plans

Line Block Valve plot plans:

1. 249.0000.000.044.001 - LINE BLOCK VALVE #1 SITE PLOT PLAN Rev 1
2. 249.0000.000.044.002 - LINE BLOCK VALVE #2 SITE PLOT PLAN Rev 1
3. 249.0000.000.044.003 - LINE BLOCK VALVE #3 SITE PLOT PLAN Rev 1
4. 249.0000.000.044.004 - LINE BLOCK VALVE #4 SITE PLOT PLAN Rev 1
5. 249.0000.000.044.005 - LINE BLOCK VALVE #5 SITE PLOT PLAN Rev 1
6. 249.0000.000.044.006 - LINE BLOCK VALVE #6 SITE PLOT PLAN Rev 1
7. 249.0000.000.044.020 - Riser Site #1 - Plot Plan Rev 1
8. 249.0000.000.044.021 - RISER SITE #2 - THIRD PARTY TIE-IN PLOT PLAN Rev 0

Wellsite Plot plans:

1. 702.0000.000.044.001 - Wellsite #07-11 Plot Plan Rev 0
2. 702.0000.000.044.002 - Wellsite #08-19 Plot Plan Rev 0
3. 702.0000.000.044.003 - Wellsite #10-06 Plot Plan Rev C
4. 702.0000.000.044.004 - Wellsite #12-14 Plot Plan Rev C
5. 702.0000.000.044.005 - Wellsite #15-29 Plot Plan Rev C
6. 702.0000.000.044.006 - Wellsite #3, 05-35 Plot Plan Rev 0

2. GENERAL ARRANGEMENT DRAWINGS

Issued for construction general arrangement drawings will be filed in livelink as they are produced by Fluor and Toyo. For both contractors these are extracts from the reviewed 3D

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models which have comments and actions from the various model reviews (30, 60 & 90%) incorporated.

For the Capture unit scope, due to heavy modularization individual general arrangement drawings per module were produced which meet the intent of general arrangement drawings. As-Built versions of general arrangement drawings will not be generated at project closeout as the As-built SP3D model will be transferred from the EPCM to Shell avoid the need for re-cadding individual drawings. This is a Fluor deliverable documented in the project scope or work and Fluor Scope of Services

Fluor Issued for Construction Above Ground Piping plans:

Capture Unit Area 246:

1. 246.0000.000.044.001 - PLOT PLAN CO2 CAPTURE RCDU UNIT 246 - 247 - 248 - 249.pdf
2. 246.0000.000.044.003 - MODULE INDEX CO2 CAPTURE RCDU UNIT 246 - 247 - 248.pdf
3. 246.0000.000.044.004 - ELEVATION AND SECTION VIEWS CO2 CAPTURE - RCDU- UNIT 246- 247- 248- 249.pdf
4. 246.0311.000.050.001 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610BCR PLAN FROM EL. 631.300 AND ABOVE.pdf
5. 246.0311.000.050.002 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610AGR PLAN FROM EL. 623.300 TO 631.300.pdf
6. 246.0311.000.050.004 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610AAM NORTH PART PLAN FROM EL. 623.300 TO 631.300.pdf
7. 246.0311.000.050.005 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610AAM SOUTH PART PLAN FROM EL. 623.300 TO 631.300.pdf
8. 246.0311.000.050.006 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610ABM SOUTH PART PLAN FROM EL. 623.300 TO 631.300.pdf
9. 246.0311.000.050.007 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610ABM NORTH PART PLAN FROM EL. 623.300 TO 631.300.pdf
10. 246.0311.000.050.008 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610BAR PLAN FROM EL. 631.300 TO 634.050.pdf
11. 246.0311.000.050.009 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610BBR PLAN FROM EL. 631.300 TO 634.050.PDF
12. 246.0311.000.050.010 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN STICK BUILT PLAN FROM EL. 623.300 TO 634.050.pdf
13. 246.0311.000.050.011 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610CBR PLAN FROM EL. 634.050 AND ABOVE.pdf
14. 246.0311.000.050.013 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING

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- PLAN MODULE 4610CAM PLAN FROM EL. 634.050 TO 640.000.pdf
15. 246.0311.000.050.014 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610DAR PLAN FROM EL. 640.000 AND ABOVE.pdf
 16. 246.0311.000.050.015 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610CCM PLAN FROM EL. 634.050 TO 640.000.pdf
 17. 246.0311.000.050.016 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610DBR PLAN FROM EL. 640.000 AND ABOVE.pdf
 18. 246.0311.000.050.017 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610AFM PLAN FROM EL. 618.200 AND ABOVE.PDF
 19. 246.0311.000.050.018 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610ACM ELEVATION VIEWS.pdf
 20. 246.0311.000.050.019 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610ACM PLAN FROM EL. 623.300 TO 634.100.pdf
 21. 246.0311.000.050.020 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN MODULE 4610ACM PLAN FROM EL. 634.100 AND ABOVE.pdf
 22. 246.0311.000.050.021 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN DRESSED VESSEL 4610AEV ISOMETRIC VIEW.pdf
 23. 246.0311.000.050.022 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN DRESSED VESSEL 4610AEV PLAN FROM EL. 623.300 TO 631.000.pdf
 24. 246.0311.000.050.023 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN DRESSED VESSEL 4610AEV PLAN FROM EL. 631.000 TO 636.500.pdf
 25. 246.0311.000.050.024 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN DRESSED VESSEL 4610AEV PLAN FROM EL. 636.500 TO 645.500.pdf
 26. 246.0311.000.050.025 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN DRESSED VESSEL 4610AEV PLAN FROM EL. 645.500 TO 655.100.pdf
 27. 246.0311.000.050.026 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN DRESSED VESSEL 4610AEV PLAN FROM EL. 655.100 TO 664.700.pdf
 28. 246.0311.000.050.027 - CO2 CAPTURE RCDU UNIT 246 ABOVE GROUND PIPING PLAN DRESSED VESSEL 4610AEV PLAN FROM EL. 664.700 AND ABOVE.pdf

HMU 1&2 Area 240

1. 240.0000.000.044.001 - HYDROGEN MANUFACTURING UNIT OVERALL PLOT PLAN.pdf
2. 240.0000.000.044.008 - HYDROGEN MANUFACTURING UNIT HMU 1 AND 2 ABSORBERS ELEVATION VIEWS.pdf
3. 240.0311.000.050.077 - HYDROGEN MANUFACTURING UNIT ABOVE GROUNDING PIPING PLAN MODULE 4120BCR PLAN FROM EL. 624.000 AND ABOVE.pdf
4. 240.0311.000.050.078 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120ADM WEST PART PLAN FROM EL. 624.000 TO 631.300.pdf
5. 240.0311.000.050.079 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120ADM EAST PART PLAN FROM EL. 624.000 TO 631.300.pdf

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6. 240.0311.000.050.080 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120BBR WEST PART PLAN FROM EL. 631.300 AND ABOVE.pdf
7. 240.0311.000.050.081 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120BBR EAST PART PLAN FROM EL. 631.300 AND ABOVE.pdf
8. 240.0311.000.050.082 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120BAR PLAN FROM EL. 629.000 AND ABOVE.pdf
9. 240.0311.000.050.083 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120AAM PLAN FROM EL. 624.000 AND ABOVE.pdf
10. 240.0311.000.050.084 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120AEM ELEVATIONS VIEWS.pdf
11. 240.0311.000.050.085 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120AEM PLAN FROM EL. 624000 TO 636.500.pdf
12. 240.0311.000.050.086 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120AEM PLAN FROM EL. 636.500 AND ABOVE.pdf
13. 240.0311.000.050.087 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120AGM ELEVATIONS.pdf
14. 240.0311.000.050.088 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120AGM PLAN FROM EL. 624.000 TO 636.500.pdf
15. 240.0311.000.050.089 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4120AGM PLAN FROM EL. 636.500 AND ABOVE.pdf
16. 240.0311.000.050.090 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4120ABV ISOMETRIC VIEW.pdf
17. 240.0311.000.050.091 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4120ABV PLAN FROM EL. 624.000 TO 639.500.pdf
18. 240.0311.000.050.092 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4120ABV PLAN FROM EL. 639.500 AND ABOVE.pdf
19. 240.0311.000.050.093 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4120ACV ISOMETRIC VIEW.pdf
20. 240.0311.000.050.094 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4120ACV PLAN FROM EL. 624.000 TO 639.500.pdf
21. 240.0311.000.050.095 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4120ACV PLAN FROM EL. 639.500 AND ABOVE.pdf

HMU3 Area 440

1. 440.0311.000.050.042 - HMU - CO2 CAPTURE SCOPE HMU 3 UTILITY STATION LOCATION PLAN.pdf

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2. 440.0311.000.050.043 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4330ABM PLAN FROM EL. 623.000 TO 630.550.pdf
3. 440.0311.000.050.044 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4330BAR PLAN FROM EL. 630.550 ABOVE.pdf
4. 440.0311.000.050.045 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4330ACM ELEVATION VIEWS.pdf
5. 440.0311.000.050.046 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4330ACM PLAN FROM EL. 623.000 TO 636.600.pdf
6. 440.0311.000.050.047 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN MODULE 4330ACM PLAN FROM EL.636.600 ABOVE.pdf
7. 440.0311.000.050.048 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4330AAV ISOMETRIC VIEW.pdf
8. 440.0311.000.050.049 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4330AAV PLAN FROM EL. 623.000 TO 633.500.pdf
9. 440.0311.000.050.050 - HYDROGEN MANUFACTURING UNIT ABOVE GROUND PIPING PLAN DRESSED VESSEL 4330AAV PLAN FROM EL. 633.500 ABOVE.pdf

Toyo preliminary issued General Arrangement Drawings for LBV and Pig launchers:

1. 249.0311.000.077.001 - ISBL PIG LAUNCHER SP-249001 PIPING GENERAL ARRANGEMENT PLAN Rev A.pdf
2. 249.0311.000.077.002 - ISBL PIG LAUNCHER SP-249001 PIPING GENERAL ARRANGEMENT SECTIONS Rev A.pdf
3. 249.0311.000.077.003 - LINE BREAK VALVE SKID TYPICAL PIPING GENERAL ARRANGEMENT PLAN Rev C.pdf
4. 249.0311.000.077.004 - LINE BREAK VALVE SKID TYPICAL PIPING GENERAL ARRANGEMENT SECTION A Rev B.pdf
5. 249.0311.000.077.005 - LINE BREAK VALVE SKID TYPICAL PIPING GENERAL ARRANGEMENT SECTION B Rev C.pdf
6. 249.0311.000.077.006 - LBV #3 PIG RECEIVER SP-249002 PIPING GENERAL ARRANGEMENT PLAN Rev B.pdf
7. 249.0311.000.077.007 - LBV #3 PIG RECEIVER SP-249002 PIPING GENERAL ARRANGEMENT SECTION Rev B.pdf
8. 249.0311.000.077.008 - LBV #3 PIG RECEIVER SP-249002 PIPING GENERAL ARRANGEMENT SECTIONS Rev A.pdf
9. 249.0311.000.077.009 - LBV #3 PIG RECEIVER SP-249003 PIPING GENERAL ARRANGEMENT PLAN Rev B.pdf
10. 249.0311.000.077.010 - LBV #3 PIG RECEIVER SP-249003 PIPING GENERAL ARRANGEMENT SECTION A Rev B.pdf
11. 249.0311.000.077.011 - LBV #3 PIG RECEIVER SP-249003 PIPING GENERAL ARRANGEMENT SECTION B C Rev A.pdf
12. 249.0311.000.077.012 - LBV #6 PIG RECEIVER SP-249004 PIPING GENERAL

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- ARRANGEMENT PLAN Rev B.pdf
13. 249.0311.000.077.013 - LBV #6 PIG RECEIVER SP-249004 PIPING GENERAL ARRANGEMENT SECTION A Rev B.pdf
 14. 249.0311.000.077.014 - LBV #6 PIG RECEIVER SP-249004 PIPING GENERAL ARRANGEMENT SECTION B C Rev A.pdf

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