

Plan for Examination

CO₂ Capture Facility

Kårstø, Norway

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Plan for Examination

1.0 INTRODUCTION

This document describes the Plan for Examination for the CO₂ Kårstø project.

2.0 PURPOSE

The Plan for Examination summarizes the project's overall document design review process and related review schedule. It combines information from key design review documents and processes, including the Quality Plan, Health and Safety Plan, Quality Audit Plan, Risk Management Document, HAZID, HAZOP, and Master Schedule.

The Plan for Examination provides an overall summary of the main quality, safety, and risk reviews to be undertaken during project execution. The plan is a live document that will be updated as the FEED design progresses.

The draft Plan for Examination is presented in Attachment 1. It contains the following information:

- Review item
- Purpose of review
- Team leader responsible for the task
- Draft schedule for review
- Information on related milestone
- Column with 'notification date to Gassnova/Fichtner'
- Column for Owner to identify participant
- Status of review
- Follow up actions
- Status on owner approval

Attachment 1—Plan for Examination

See attached Excel spreadsheet

Attachment 2 – Response to Owner’s engineer comments

FICHTNER		Project: <u>CO₂ KÅRSTØ</u>	<u>CONTRACTOR:</u> Bechtel [REDACTED]	<u>OWNER’S ENGINEER DOCUMENT REVIEW FORM</u>
Review Sheet No.:		<u>10112936-S-FIPB-Q-0003</u>		
Doc. Title :		Plan for Examination		
Doc. No. :		10112936-PB-A-PAM-0001		
Doc. Rev. :		00		
REVIEW/ACCEPTANCE CODE		1 Reviewed / Approved		
2		2 Approved with comments incorporated		
		3 Not Approved. Review and Reissue		
Review Performed by : Fichtner		Date : 24.09.2008		
No.	Ref .	Comment	Response	
1	General	The document in general is suitable to quality standards but some improvement is necessary.	Comments incorporated below.	
2	Chap. 1.2	The list of information should be updated according the improved (added columns) Attachment 1.	The list of information has been updated as requested	
3	Attachment 1	Team leaders shall be named for each task.	Please see revised attachment 1	
4	Attachment 1	Please add information which Milestone is related to the single activity. A column showing the related Milestone would be helpful.	Please see revised attachment 1	
5	Attachment 1	A column should be given were Gassnova can identify its participation (“mark up”), Contractor shall notify Company about such activities. When the plan has been worked out, we will decide who are going to participate in the different Examinations. (Representatives from Owner, Owner’s Engineer and Contractor). Progress, follow up and approval of Owner, Owner’s Engineer of single activities should be indicated.	Please see revised attachment 1	

6	Attachment 1	In addition it would be helpful to insert a column like "Notification Date to Gassnova / Fichtner".	Please see revised attachment 1
7	Attachment 1	Please add a new activity at the end of the table "Risk review / self assessment of the final Milestone M6 Bechtel [REDACTED]" .	Please see revised attachment 1
8	PFID	Before formal issue to Gassnova / Fichtner, an internal review of the PFID's should be performed by Contractor.	We already undertake these internal reviews per our procedures. We've added these reviews to the Examination Plan (please see revised attachment 1)
9	Process H&MB	Only firm deliverables dully checked by Contractor shall be issued to Gassnova / Fichtner, preliminary versions should not be considered for formal issuance to Gassnova / Fichtner.	The mention of 'preliminary H&MB' referred to the M2 milestone issue (initial process design). On the same note, the 'final H&MB' referred to the M3 milestone issue (final process design). Please note that, per our procedures, we undertake internal reviews of all documents (preliminary and final) prior to issue to the owner.
10	HAZID HAZOP	The wording should be "HAZID review" (not HAZID report, as the given date should indicate the actual activity rather than the issue/review of the report). The same applies for the HAZOP. According to your plan you anticipate only one day for the HAZOP. Taking into account the nature and complexity of the CCC plant we would rather expect 2 to 3 days of HAZOP.	Comments have been incorporated in the revised attachment 1

