

Section 17. Supporting Studies and Procedures

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17.1 Supporting Study Reports and Procedures

Table 17-1 Supporting Study Reports and Procedures

Item	Document Number	Description	Company	Contents
1	0572-33-493	Assessment of the Sediment Contamination Beneath the Maureen Platform – 1998 (Released Feb 2000)	Cordah Environmental Management Consultants	Results of seabed sediment sampling from beneath and around Maureen Platform, the Maureen Loading Column and Moira Wellhead.
2	0572-33-506	Pre-Decommissioning Baseline Seabed Survey of the Maureen A Platform and Associated Infrastructure (Draft dated Mar 2000)	Cordah Environmental Management Consultants	A baseline pre-decommissioning seabed survey of the Maureen Platform area.
3	BE-88-58	Environmental Survey of the Benthic Sediments Around the Maureen Oil Field – Oct 1988 (Report dated July 1989)	Aberdeen University Maritime Studies Limited	Results of environmental survey to determine physical, chemical and biological sediment status around the Maureen Platform five years after the cessation of development drilling
4	3500.1.2/RE/001	Maureen Pipeline Decommissioning: Decommissioning Philosophy Review	Andrew Palmer and Associates	Assessment of the options for decommissioning the Maureen Pipelines
5	N/a	Biological Survey of the Maureen Oilfield – August 1979 Report by I.M.T.Dixon dated July 1980	Oil Pollution Research Unit	Pre-production assessment of the benthos in the area of the Maureen Oilfield

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Item	Document Number	Description	Company	Contents
6	N/a	Biological Survey of the Maureen Oilfield – August 1981 Report by I.M.T.Dixon dated April 1982	Oil Pollution Research Unit	Second pre-production assessment of the benthos in the area of the Maureen Oilfield after development drilling phase.
7	FSC/OPRU/15/84	Biological Survey of the Maureen Oilfield – August 1983 Report by I.M.T.Dixon dated May 1984	Oil Pollution Research Unit	Third benthic environmental survey in the Maureen Oilfield
8	3988	Environmental Survey of the Sediments Around the Maureen Oilfield – August 1993	Gardline Surveys	Post drilling benthic survey to follow-up previous surveys in 1983 and 1988
9	73573-1	Maureen Refloating Study – Feb 1999	Fugro Limited	Independent assessment of the geotechnical aspects of refloating the Maureen gravity base platform
10	0572-33-492	Assessment of the Environmental Impacts of the Operations to Refloat the Maureen A Platform – Oct 1998 (Released Oct 1999)	Cordah Environmental Management Consultants	Assessment of the environmental impacts of the operations to refloat the Maureen Platform.
11	97-3657	Platform Material Inventory Dossier	DnV	Independent assessment of Material Present on the Platform
12	0000003	Decommissioning of Peripheral Equipment – 1997	ODE Ltd.	Evaluation of the Decommissioning options for the Platform Facilities
13	dmr\mau\cop\99	Maureen Decommissioning; Disposal of Naturally Occurring and Man Made Radioactive Waste	PPCo UK Ltd	Assessment of naturally occurring and man made radioactive substances on Maureen and outline of environmental and safety requirements concerning their disposal.
14	73573-2	Underbase Testing	Fugro Limited	Independent review of the Underbase Soil Conditions

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Item	Document Number	Description	Company	Contents
15	93809-1	Maureen Refloat Project Phase II Model Testing Results Issue 01, 26 June 1999	Fugro Limited	Test results
16	93814-1	Maureen Refloat Project Interim Report Phase III Model Testing Issue 02, 2 Dec 1999	Fugro Limited	Test results
17	93817-1	Maureen Refloat Project Interim Report Phase IV Model Testing Issue 02, 10 Feb 2000	Fugro Limited	Test results
18	990524-1	Maureen Refloat Project Geotechnical Verification	Norwegian Geo-technical Institute	Results of verification
19	99-3562	Technical Audit of Maureen Refloat Operation Rev. 03, 13 Mar 2000	Det Norske Veritas	Results of technical audit
20	13800/00	Environmental Modelling of Cutting Disturbance Apr 2000	BMT Marine Information Systems Limited	Study of drill cuttings disturbance under the UKOOA drill cuttings initiative
21	UK/SE-011	Marine Operations Manual	PPCo UK Ltd	The Installation Marine Operations Manual

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Item	Document Number	Description	Company	Contents
22	0572-33-503	Analysis of Ballast Water Samples from the Maureen Platform (July – September 1999) Revision 1, Nov 1999	M-Scan	Samples of main tank ballast water
23	0572/33/502	Analysis of Structural Water Samples from the Maureen Platform July – September 1999 Revision 1	M-Scan	Samples of structural water
24	RF-1998-97	Disposal of Oil-based Cuttings	Rogaland Research	Drill cuttings report prepared for OLF
25	0000001	Abandonment Feasibility Study	Tecnomare	Review to establish decommissioning methods for the Maureen Facilities and recommendations for refloat
26	0000002	Maureen Platform Abandonment Study 1994	Reverse Engineering Limited	Review to establish decommissioning methods for the Maureen Facilities and recommendations for refloat
27	0000007	Disposal Risk Assessment	Trident	Evaluation of the safety and risk issues for the Maureen Decommissioning
28	97-3553	Third Party Assessment on Material Disposal Methods	DnV	Independent assessment of Platform Material disposal methods
29	97-3584	Platform Cleaning Technologies	DnV	Independent assessment of cleaning methods for the Maureen main Cude Oil Storage Tanks

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Item	Document Number	Description	Company	Contents
30	97-3564	Environmental Effects - Acceptability Criteria	DnV	Independent assessment of acceptance criteria for the Maureen Crude Oil Storage Tank cleaning
31	4051-B-A-101	Platform Refloat-Design Basis	ODE Ltd.	Independent assessment of Maureen Alpha refloat method
32	4051-B-A-03	Platform Refloat-Towing Specification	ODE Ltd.	Assess and establish the Platform's refloat towing specification
33	4051-B-G-003	Platform Refloat – Water Injection	ODE Ltd.	Assess and establish the refloat Water Injection requirements
34	4051-B-G-001	Platform Refloat – Ballasting System	ODE Ltd.	Assess and establish the refloat Ballasting System requirements
35	4051-B-G-021	Platform Refloat – Compressed Air	ODE Ltd.	Assess and establish the refloat Compressed Air System requirements
36	4051-B-G-023	Platform Refloat – Compressed Nitrogen	ODE Ltd.	Assess and establish the refloat Compressed Nitrogen requirements
37	4051-B-G-024	Compressed Nitrogen Systems	ODE Ltd.	Assess and establish the refloat Nitrogen systems
38	4051-B-G-061	Docking Pile System	ODE Ltd.	Review and assess the platform's Docking Pile System
39	4051-B-G-062	Docking Pile Equipment	ODE Ltd.	Review and assess the platform's Docking Pile Equipment
40	4051-C-A-009	Refloat – Environmental Loads	ODE Ltd.	Independent assessment of the refloat Environmental Loads
41	4051-C-A-101	Refloat – Hydrodynamic Analysis	ODE Ltd.	Independent assessment of the refloat Hydrodynamic Analysis

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Item	Document Number	Description	Company	Contents
42	4051-C-A-022	Underbase Water Injection Design	ODE Ltd.	Independent assessment of the refloat underbase water injection design
43	4051-C-A-022	Estimate of Platform Weight	ODE Ltd.	Independent assessment and update of the Platform Weights
44	4051-C-T-003	Platform Refloat – Formal Safety Assessment (Hazard Review) – Sept 1998	ODE Ltd.	Independent hazard review for the manned/unmanned operations involved in the break-out and float-up of the Maureen Platform
45	4051-K-A-002	Estimate of Drill Cuttings Around Platform Base – Sept 1998	ODE Ltd.	Independent estimate of the depth of Drill Cuttings around the template and base of the tanks
46	DP/AB/POM-002	Maureen Facilities Operating Procedure Manual	PPCo UK Ltd	The Current Platform Operations Manual
47	P550-L-2002	Installation Over Template	C.G. Doris	The Platform Installations Manual
48	CV/MT/0598	Grout Characterisation Tests – 1998	University of Surrey	Independent assessment of the Grout Condition
49	440-Rel-S312	TSG Weight Report	Tecnomare	The original T.S.G. Weight Report
50	2061-38-001-65	Maureen Topsides Weight Report	Amec	Update of the Topsides Weight Assessment
51	PH/96/2393/1	Pipeline Inspection – 24" Loading Line	Seateam	ROV Survey of the 24" Loading Line
52	PH/96/2393/2	Inspection – 6" Flowline & 2" Gas Lift	Seateam	ROV Survey of the 6" Flowline & 2" Gas Lift Line Sht. .1.
53	PH/96/2393/4	Inspection – 6" Flowline & 2" Gas Sht.2	Seateam	ROV Survey of the 6" Flowline and 2" Gas Lift Line Sht. .2.
54	PH/96/2393/4	Inspection – 6" Flowline & 2" Gas Sht.3	Seateam	ROV Survey of the 6" Flowline & 2" Gas Lift Line Sht. .3.

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Item	Document Number	Description	Company	Contents
55	PH/96/2393/5	Inspection – 6" Flowline & 2" Gas Sht.4	Seateam	ROV Survey of the 6" Flowline & 2" Gas Lift Line Sht. .4
56	2193-003	Rectification by Rock Dumping	Aquatic	Independent assessment of the Rock Placement requirements at Maureen
57	2140-002	ALC-Extent of Scour	Aquatic	Independent assessment of the extent of Scour around the ALC
58	2140-003	ALC Base Rock Dumping	Aquatic	Assessment of the ALC Base Rock Placement Sht. .1.
59	2140-004	ALC Base Rock Dumping	Aquatic	Assessment of the ALC Base Rock Placement Sht. .2.
60	23-3290	Maureen Site Investigation May 1997	Britsurvey	Independent Site Investigation around the Maureen Platform
61	0572/30/0293	Inspection/Testing Programme Vol. 1	BJPPS	Subsea Inspection & Testing to cover the Maureen Decommissioning Sht. .1.
62	0572/30/0293	Inspection/Testing Programme Vol. 2	BJPPS	Subsea Inspection & Testing to cover the Maureen Decommissioning Sht. .2.
63	R1375/Rep/1	Underbase Pumping & Testing	CSOL	Specification for the Underbase Pumping and Testing Survey
64	R1375/Rep/2	Inspection Report	CSOL	Report on the Underbase Pumping and Testing Survey
65	4051-B-J-005	Rock Dumping Specifications	ACZ	Assessment and specifications for the Rock Placement
66	MAUR-14006-J-0002	Marine Operations (Refloat)	Aker	Overall Method Statement for Platform Refloat
67	MAUR-14006-J-0325	Marine Operations (Report)	Aker	Maureen 'A' Tow and Connection to Inshore Mooring Report
68	MAUR-14006-J-0345	Marine Operations (Procedure)	Aker	ALC Tow and Connection to Insure Mooring procedure

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Item	Document Number	Description	Company	Contents
69	MR321	An Estimate of the Weight of Marine Growth on the Maureen Alpha Platform (Revision dated Oct 1996)	Cordah Environmental Management Consultants	Description of the marine growth and estimate of its volume and weight on the Maureen structure
70	02260-1	Maureen Platform – Testing of Diver Samples (Revision dated Feb 2000)	Fugro Limited	Geotechnical analysis of cored seabed sediment samples obtained by divers from around and under the Maureen Platform
71		Maureen Platform Decommissioning Independent Peer Review of Research & Documentation Supplementary Report : 22 May 2000	Prof J G Shepherd - University of Southampton Prof T Bakke - Norwegian Institute of Water Research Prof J Rullkoetter - University of Oldenburg	Independent International Peer Review of Phillips Proposals for dealing with drill cuttings at Maureen as part of the Decommissioning Programme
72	UK0630	An Assessment of the Potential Environmental Impact of Some Possible Options for Decommissioning of Maureen Alpha Production Platform, North Sea : 31 March 1997	Cordah Environmental Management Consultants	Review to establish decommissioning methods for the Maureen Facilities and recommendations for refloat
73	MAUR-14006-S-0012	Technical notes in support of Secondary Space and Ballast Water discharges	Aker Maritime	Assessment of the environment implications of discharging water from the Maureen Platform to the sea

Item	Document Number	Description	Company	Contents
74	0572/33/0617 DERA Report Number DERA/S&E/ USO/CRO111 50/1.0	Maureen Decommissioning Programme Environmental Impact Assessment (EIA) in Support of Maureen Drilling Template Recovery using Explosive Cutting Devices – 2001.	Defence Evaluation and Research Agency.	Assessment of the environmental implications of cutting the Maureen Drilling Template using shaped charges.

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