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FRIGG/CDP1-1 DECOMMISSIONING Final report



Tie-in & Construction department

CDP1 DECOMMISSIONING

FINAL REPORT

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1. INTRODUCTION

1.1 SUMMARY

In March 1990, a group was formed with the responsibility to perform the work required to ensure the safe and expedient close down and decommissioning of CDP-1. The group consisted of members from Tie-in & Construction Department (TCD), Production Department (PD) and Drilling & Completion Department (DCD), and should serve as a coordination forum for the different activities to be undertaken. (Enclosure 1.1.1).

The responsible entities for the tasks were:

DCD - abandonment of wells
 PD - steaming/gas freeing

TCD - removal and preparing for final status.

This report covers only the work done directly under the responsibility of TCD.

The work was started early March 1990 by initiating the planning/preparation of the offshore work. A project engineer was appointed. He was given the responsibility for preparation of work task sheets, and the detailed planning required to achieve the target.

The basis for the offshore work is given in the report "Manual for Decommissioning of the CDP-1 Platform", issued by Production Department in November 1989. The manual contains both planning and a cost estimate for the work. The planning presented assumed stop of production from CDP-1 late August 1990 and final wells abandonment to be completed in October 1990. The cost was estimated to KNOK 30.000,-, including contingency.

During the cause of the well plugging campaign which had started in January 1990, it became clear that the work progressed much faster than originally planned, and that the planning as given in the Manual could not be followed. The start of the offshore decommissioning work would be much earlier than foreseen. This had as a consequence that the preparation time for the offshore work became much shorter than anticipated.

Originally, the intention had been to give the offshore work to a Contractor on a lump sum basis, but because of the short preparation time it was not possible to detail all the tasks to a sufficient level. It was therefore decided to issue a call for tender for the offshore work as a combination of lump sum and reimbursable work.

Tenders were issued in May 1990, and the Contract was awarded to Aker Maintenance in the middle of June.

During this time, close contact was kept by the members of the Coordination group, and TCD was at all times kept informed of the progress of drilling. It had been decided that TCD should start the offshore work after the completion of the wells abandonment campaign, as this would enable TCD to quarter personnel on CDP-1 instead of shuttling from other platforms.

The wells abandonment campaign was completed in the middle of June 1990, and for planning reasons it was decided that TCD should start the offshore work 2nd July.

During the preparation phase, contact was taken with both the British authorities and the Certifying Authority (DnVC) in order both to inform them about the planned work with CDP1 decommissioning, and to discuss the best way to ensure compliance with rules and regulations during and after this phase. Regular meetings were held with Department of Energy (DEn), Department of Transport (DOT) and DnVC, and we where complimented for the way we treated this matter.

As long as CDP-1 remains as a fixed installation in British waters, the Certificate of Fitness for the platform shall be kept, and shall at all times reflect the actual situation with the platform. It was therefore decided, in cooperation with Certifying Authority, to amend the Certificate 3 times during the cause of the decommissioning work:

- 1 when all wells were plugged and the platform gas free.
- 2 when moving out from the CDP-1 living quarter.
- 3 upon completion of the decommissioning work.

For practical reasons, it was later decided that only two amendments were made, those indicated by 1 and 3 above.

The offshore work was divided into two phases. Phase 1 comprised all the work to be done while still living on CDP-1, while phase 2 was the period when shuttling from other platforms became necessary. During phase 1 the work was concentrated on making the platform gas-free and on removing parts of the platform which was not essential for safety of the platform and crew. Phase 2 was utilized to empty the living quarter and passivation of all remaining systems.

Due to the dismantling of both cranes, some equipment (compressor, generator, tool containers, etc.) had to be lifted off CDP-1 by helicopter. Through a good cooperation with Logistic Department (Air Traffic Section) and Helicopter Service A/S, this was accomplished very fast and efficient. A total of 12 lifts were removed in 1 hour and 40 minutes.

The offshore work for the Decommissioning of CDP-1 was completed on the 8th of November 1990, with an estimated final cost of KNOK 14.500,-.

1.2 BACKGROUND

Due to the decline in the gas production from CDP-1, the decision to stop production from CDP-1 and to put the platform in a decommissioned mode was taken based on discussions in several study reports issued within EAN:

CDP-1 Status after end production, dated 15/06/87

CDP-1 Decommissioned status, dated 18/02/88

CDP-1 future From full production to decommissioned status dated 05/05/88

Frigg/CDP-1 The role of the CDP-1 platform in the decline

of the Frigg reservoir, dated September 1989.

Frigg/CDP-1 Manual for the decommissioning of the CDP-1

platform, dated 23/11/89

2. PREPARATION

2.1 STUDIES DONE

2.1.1 Introduction

A study was initiated with Aas-Jakobsen A/S (AAJ) in order to evaluate the consequence of leaving the conductor guide frames (CGF's) and 5 casings in position, after the platform have been decommissioned.

There are four CGF's on CDP1, all located inside breakwater wall on the southern side of the platform (Cell C and D), 2 at elevation + 91.3m and 2 at elevation + 73.3 m (Fig. 2.1 and 2.2). The two CGF's at elevation + 91.3 m have been previously repaired due to fatigue cracking in the supports.

The five casings (2 off 30" fire water casings and 3 of 24" sea water risers) were cut above anchor support AT + 104 m as part of the decommissioning programme, leaving vertical sections of 35 m in position. (Fig. 2.3). The aim of the study was to evaluate the consequence of casing support failure.

The central core on CDP1 has been empty during the production phase. For the decommissioned phase, it could be an advantage to fill central core. Various studies have been performed to evaluate this.

2.1.2 Conclusion

Based upon the results of the analysis (Ref. 1) it was concluded that both conductor guide frames (CGF) at elevation + 91.3 m had to be removed. The two CGF's at elevation + 73.3 m, and the five casings could be left in position without being a threat to the structure.

Based upon the results of an evaluation made by AAJ (Ref. 2) and various internal studies it was decided to flood CDP1 central core.

2.1.3 Conductor guide frame

The fatigue problems on the conductor frame support detected in 1985 were caused by vertical wave action. The weight in air of the CGF's are around 45 ton while the weight in water is 13 ton. The max vertical wave force is around 90-95 ton giving important cyclic stresses, which caused the fatigue cracks in the corbel fixed supports. (Ref. fig. 2.2). The supports were reinforced locally in 1985, and a vertical member installed in order to absorb some of the vertical forces. These repairs have been effective, and have reduced the stress variations at the critical intersections with 65%.

Still the remaining stresses were by AAJ considered important enough, that fatigue failure could occur in the future. The fatigue failure will occur in the corbel fixed supports. The CGF will then probably drop off all the four supports. Depending on the weather conditions the vertical 20" brace might be strong enough to support the whole CGF. If the CGF is supported by this 20" brace, the waves will move it as a

enough to support the whole CGF. If the CGF is supported by this 20° brace, the waves will move it as pendulum, and cause local damage to the concrete structure. If the vertical brace fails, the CGF will drop down onto the CGF 18m below or down on the stabilizing soil. This event will most likely cause local damage to the concrete structure.

Considering the above potential consequences; the fact that future removal would be much more complex, and to be in line with the level of equipment removal which were performed topside, it was decided to remove the two CGF's at + 91.3 m. The two lower CGF's were not supposed to cause any harm to the structure and were therefore left in position.

2.1.4 Utility casings

The two 30" firewater risers and the three 24" sea-water risers (fig.2.1 and 2.3) were all cut at above anchor flange at elevation + 107 leaving 35 m of pipe in a vertical position. All risers are terminated by subsea pumps at elevation + 65-68m. The risers are anchored at elevation + 104 and + 70 m, and guided at two intermediate locations. Based upon previous inspection results it could be concluded that the risers and their supports as per 1990 were in a satisfactorily condition.

Failure in the future could be caused by corrosion or fatigue. The most likely failure event is failure in the bolts between support and breakwater wall. However even if the complete risers drops (weights 34 tons in air) in a very unfavourable direction, the possible impact is not considered important enough to cause any major damage to the structure.

The utility risers can be kept in position.

2.1.5 Central Core

The CDP1 central core was originally designed to be water-filled and anodes have therefore been installed at various critical locations. During the production phase the central core has not been flooded.

In the decommissioning phase the platform will be "dead", however various lines R5 and R6 26" and J4 and J5 4" and 8" respectively, will be used for nitrogen and air storage.

The central core including anodes and the various J-tubes and risers have in the past been regularly inspected from the inside. Considering this historic information and based upon an evaluation of the present condition it was concluded that there was no need for any regular work inside the central core during decommissioning mode, even through some of the J-tubes/risers still are in use.

The anodes in the central core are estimated to have a remaining life of 18 years (Ref. 3).

With respect to the concrete structure it was concluded that the additional pressure/stresses induced by an extra weight of 6000 ton would not influence the overall integrity of the platform (Ref. 2).

The foundation stability is improved by additional weight added to the platform.

Based upon the above it was concluded that the central core could be safely filled with water, and that this would be an advantage.

References

- "Frigg CDP1 decommissioning conductor guide frame integrity" Aas Jakobsen report 4426/ANB-1/AHN dated 06.06.90.
- 2. "Definition of critical areas for the decommissioning inspection programme" AAJ report 106-90 (EAN-16) dated 16.08.90.
- "CDP1 decommissioning, corrosion in J-tubes ad tunnel caisson" Eng. Dept. report 91004 I dated May 1990.

2.2 ENGINEERING BY EAN

Nav aid system on CDP1

Installation:

The two existing 10 nm Tideland lanterns have been re-connected and are in addition to the obstruction light the only electrical operating system on the platform. The two 10 nm lanterns and the obstruction light are all poured from three separated units which include solar cells and batteries. One 10 nm lantern are located on the NW corner of the platform, one 10 nm light on the SE corner and the obstruction light on the top of the rig office module.

Operational experience:

Due to the short operating time so far, the experience with the system is limited. During the time it has been in operation, there have not been reported any failure or problems.

2.3 ENGINEERING BY CONTRACTOR

Contractor was responsible for all detail engineering which was necessary for proper execution of the work, except for those tasks which specifically described that engineering would be performed by Company.

Beside the welding procedures, Contractor prepared the following procedures:

- SP017 Procedure for Removal of MK60 Crane
- SP018 Procedure for Removal of National Crane
- Procedure for Removal of Diving Module
- SP013 Procedure for Installation of New Walkway Bridge
- SP011 Procedure for Removal of Flare Booms
- SP010 Dismantling Procedure for CDP1 Derrick.

All these procedures were reviewed internally in Elf by Safety Department and approved by TCD.

2.4 OFFSHORE WORK TASKS

2.4.1 Introduction

The offshore decommissioning work was performed using the task sheet system. The raising of the sheets were based on the documentation which was formulated by Production Department, titled "CDP1 Decommissioning Manual", dated 23.1..89.

2.4.2 Structure of Tasks

The tasks were divided into seven separate systems, namely:

- 10 series Pipeline/Riser
- 20 series Drilling Equipment
- 25 series Production Facilities
- 35 series Secondary Structure
- 40 series Utilities
- 45 series Electrical Equipment
- 50 series Safety Equipment.

Each system was in turn sub-divided into a sub-system and a symbol in the task number was included to indicate the type of trade which was to be performed, e.g.:

- M - Mechanical

- P - Piping

- S - Structure

- SF - Structure Fabrication (onshore prefab)

I - Instrument

- E - Electrical.

An example of a task number is listed below:

005

Mechanical

M

Title

- "MK 60 CRANE REMOVAL"

Utilities System

Sequence Number

A description of the work to be performed along with the relevant drawings accompanied each task sheet, see attached task sheet for Task No. 40M005, enclosure 2.4.2.1.

2.4.3 Contractual

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These task sheets were drawn-up into a task list which was first included in the call for tender documents and also in the final award of contract documents.

Prior to the immediate commencement of the offshore decommissioning works, a small number of the tasks were revised in order to accommodate a number of inclusions, e.g. updated drawings, changes in the scope of work and other diverse information which had arisen.

In case of discrepancies occurring between a task sheet and a drawing and/or a specification, the drawing and/or the specification respectively should prevail.

Man-hours estimate was based on estimation by EAN

Man-hours actual was based on logged man-hours on each task.

A task was not considered 100% completed before the documentation related to the task was approved and all signatures received.

In cases where Contractor identified additional activities which was not covered by the task sheets, a Variation Order Request was raised according to Contract Administration Procedure.

A total of 23 Variation Orders were issued throughout the whole project.

For examples of Variation Order and Variation Order Request, see enclosures 2.4.2.2 and 2.4.2.3.

2.5 PLANNING

2.5.1 Company planning

The Company prepared the overall planning for the entire project, including tasks to be carried out by Production Department and Maintenance Department. The planning was prepared in two different levels:

Level 1 - Overall master schedule split by system

Level 2 - Bar chart at task level.

See enclosed example: 2.5.1.1. - 2.5.1.7.

Phase 1 was defined as the period from abandon of all wells and up to closure of living quarter, primo September 1990.

Phase 2 was defined as the period from closure of living quarter and up to end of decommissioning works, primo November 1990.

2.5.2 Contractor Planning:

Contractor based his planning on Company's level 1 planning, but included mainly the tasks that were part of his work.

Contractor's level 2 planning was based on task level, defining the sequence and time limit of each task.

Based on this planning a planned S-curve was established.

See enclosed example on Contractor planning: 2.5.2.1. to 2.5.2.5.

2.6 CONTRACTOR SELECTION

In order to select a contractor for the CDP1 decommissioning work offshore, a call for tender was issued to:

- OMM Group, Stavanger
- Aker Maintenance A/S, Stavanger
- Maritime GMC. Stavanger
- Unifab, Bodø.

The tender covered all offshore works on CDP1, TP1 and TCP2, consisting of 126 tasks reimbursable and lump sum.

The tenders were received 11.06.90 at 15.00 hrs. One contractor declined (OMM). The detailed technical evaluation confirmed that all three tenders were technically acceptable.

The tender with the lowest price, Aker Maintenance A/S was called in for technical/contractual/commercial clarification meeting 13.06.90. After the meeting, all outstanding items were clarified and the contract was awarded Aker Maintenance.

See enclosed commercial evaluation, Enclosure 2.6.1.

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3. OFF-SHORE WORK

3.1 ORGANIZATION

3.1.1 Introduction

Aker Maintenance Stavanger A/S (A.M.S) was awarded the contract to perform the off-shore works in connection with the CDP1 decommissioning project. Work commenced onboard CDP1 2 July 1990 and was completed 8 November 1990 when the remaining equipment was evacuated by helicopter.

3.1.2 Organization of Phases 1 & 2

The off-shore work was organized into two distinct phases in order to cope with the availability of living quarter accommodation.

- 3.1.2.1 Phase 1 covered the period from 2 July 1990 to 3 September 1990 when the CDP1 living quarter accommodation was in use and a normal platform manning crew was onboard. At this stage CDP1 was considered a "manned platform" with all facilities in operation (except gas production).
- 3.1.2.2 Phase 2 commenced 4 September 1990 when the living quarter accommodation was closed and the normal platform manning crew was demobilized. At this stage CDP1 was considered an "unmanned platform" with all personnel being shuttled to CDP1 in the morning (07:00) and returning to their respective accommodation platforms with the evening shuttle (19:00).

3.1.3 Core Team

In order to deal with the introduction of the Phase 2 as described in 3.1.2.2 a special "Core Team" of Elf employees was established to replace the normal permanent platform manning crew. The "Core Team" consisted of the following personnel:

- one OIM (formerly Safety Supv.) who also fulfilled the Safety Supv. position.
- one Construction Supt. who also fulfilled the assistant OIM position.
- one Medic who also fulfilled the Rig Officer position.
- one Electrician.

All four members of the Core Team were accommodated on QP platform and were the first crew shuttled to CDP1 each morning and were the last crew shuttled from CDP1 each evening.

3.1.4 Manning

Following the commencement of Phase 2 and the subsequent shuttling of all personnel a ceiling was imposed on the number of personnel who could be onboard CDP1 at any one time. This was set at twenty-two people, a figure which had been reached by calculating the maximum number of personnel who could be evacuated from CDP1 by the Bond Dauphin helicopter with two shuttles. (Thus 2 shuttles x 11 passengers each).

In order to allow for some flexibility due to various visits and other extra work the daily figure of personnel onboard was always limited to a maximum of twenty thus allowing for these special arrivals to take place as and when required.

3.1.5 Helideck Landing Team

Following the introduction of Phase 2 a specially nominated helideck landing team was established to monitor and assist during the landing and take-off of helicopters. This team consisted of the following personnel.

- one Heliguard Officer (OIM)
- one Fireguard (contractor crane operator)
- one Proximity person (Constr. Supt./Elec.)

The contractors crane operator was drafted into the fireguard position owing to the fact that they had completed the helideck fire-fighting course.

The team was doubled to a total of six when the main fire-fighter systems (firewater pumps, etc.) were taken out of service and only the light foam and portable fire-fighter equipment (powder and CO₂) were available.

This team consisted of the following personnel:

- one Heliguard Officer (OIM)
- two Fireguards (Crane Op./Constr. Supt.)
- two Fireguard Assistants (Contractor Personnel)
- one Proximity person (Elec.).

3.1.6 Company Construction Team

The Off-shore Company Construction Team was headed by the Construction Supt. The Onshore Construction Team was headed by the TCD Construction Section Head supported by a dedicated Project Engineer. Contact was maintained throughout the duration of the project between the Constr. Supt. and the Project Engineer. "Daily Telex Reports" and a weekly updated issue of the "Weekly Progress Report" were transmitted by the Constr. Supt. to the Onshore Team.

The Company Constr. Supt. reported directly to the Frigg Field Manager on a daily basis as required and also through copying the FFM on the "Daily Telex Report".

3.1.7 Contractor Construction Team

The Off-shore Contractor Construction Team was headed by their Construction Supt. Their Onshore Construction Team was headed by a Project Manager.

3.1.8 Communication Facilities

During the course of Phase 1 all the normal communication facilities e.g. satellite telephone, telex and telefax were in operation. However, following the commencement of Phase 2 the telex and telefax facilities were removed from CDP1 and this form of communication had to be effected via QP. The satellite telephone facility was also removed from CDP1 and a specially installed "point-to-point" telephone was installed.

3.1.9 Working Accommodation

During the course of Phase 1 all existing office facilities were in normal service. Once Phase 2 had commenced, all of these facilities, including the living quarters accommodation, were closed and alternative facilities were taken into use.

This consisted of utilizing the Rig Module (both levels) to cover the requirements of the decommissioning crew. The previous radio room/rig office was used by the OIM, Company and Contractor Constr. Supt. and Medic/Rig officer as a communal office. The rig office check-in area was kept largely as before whilst the first floor filled the function of a combined coffee shop, cafeteria and semi-office for the Marine Co-ordinator and Crane Driver.

Electrical power to both the 220v (lights, heaters) and the 380v (HVAC) systems were supplied by temporary portable generators located on the pipe deck. Fresh water supply was maintained by utilizing the existing Saipem System which was, in turn, connected to the same temporary portable generators. Hot water for the rig module was obtained through the hot water heater unit located in the coffee shop.

3.2 DETAILED PLANNING

3.2.1 Sequence of Work

The actual sequence of work was decided upon following a careful review of all the known tasks available and their possible influence upon each other.

Thus it was decided, for example, to perform all the steaming tasks at the commencement of the offshore decommissioning works in order to ensure a hydrocarbon free piping system before continuing with other tasks, some of which included hot work on the same piping system.

Thereafter, the sequential execution of the various tasks was planned to incorporate some of the following examples:

- removal of various pumps and associated risers before removing the MK60 crane.
- isolation and de-energizing of various live systems prior to removal or decommissioning of various consumers.
- maintain the minimum number of lifeboats onboard in order to cover for the Phase 2 manpower level.
- maintain the helideck fire-fighter systems in operation for as long as possible.
- removal of other pumps and associated risers plus other equipment before the removal of the National crane.

3.2.2 Temporary Power and Utility Supply

It was already a known fact that once Phase 2 commenced then the normal sources of power and utility supply available onboard CDP1 would be taken out of service. These included the following:

- 5.5 kV electrical supply from QP.
- power supply from local CDP1 generators.
- compressed air supply from local CDP1 sources.

Thus it was foreseen that the contractor would supply the necessary generators and compressors to maintain the vital systems onboard CDP1 in addition to supplying the necessary power and utility supply to operate their own equipment (e.g. welding machines, grinders and drills, air-operated winches, crane power and utility supplies, etc.).

The following temporary power and utility supply equipment was mobilized:

- one 380V generator
- one 220V generator
- one compressed air generator. (At first the existing Ingersoll-rand onboard CDP1 was used until its replacement with a smaller model).

The final size and weight of the above equipment in relation to the relative supply capacity versus demand had to be weighed against the lifting capacity of the evacuation helicopter.

3.2.3 Man-hours

A copy of the "CDP1 Decommissioning Register" (6 pages) updated to reflect the completed off-shore CDP1 Decommissioning Project, is attached to this report. (Encl. 3.2.3.1). Contained within this register is a comprehensive summary of all the man-hours estimated and expended, divided into the seven separate systems.

The "Estimated Man-hours EAN" column was based upon the original input contained in the documentation formulated by Production Dept. titled "CDP1 Decommissioning Manual". The "Estimated Man-hours AKER" column was based on revised task descriptions, transfer of tasks to system responsible departments and other information which became known during the planning of the project.

3.3 PROGRESS OF OFF-SHORE WORK

3.3.1 Follow-up and Reporting

In order to ensure an accurate follow-up of the off-shore decommissioning works a series of reporting methods were introduced covering all aspects of the work.

3.3.1.1 "Weekly progress report"

This report consisted of the itemized tasks with descriptions incorporating the per cent progress, expended hours and accumulated hours which was updated weekly based on the input of the Company Constr. Supt. (Encl. 3.3.1.1).

3.3.1.2 "Barchart at task level"

This report consisted of the tasks being organized in their order of sequence of execution and was updated weekly based on the input as described in item 3.3.1.1. (Encl. 3.3.1.2).

3.3.1.3 "Register"

This report was raised by the cost follow-up section based on the information supplied through the reports as described in items 3.3.1.1 and 3.3.1.4.

3.3.1.4 "Daily telex report"

This report was a summarized list of each days activities which was raised by the Company Constr. Supt. and sent to Construction Section Head.

3.3.1.5 "Contractors weekly report"

This report was issued weekly by the Contractor to the onshore Company Project Engineer and summarized all the various activities of the decommissioning project.

3.3.2 Variation Orders

During the course of the off-shore decommissioning works it became necessary to perform work which was over and above that which had been described on the various task sheets. These newly found works were individually collected under the "Variation Order" registration system and were allocated a sequential number. A total of twenty-one such variation orders were raised during the course of the off-shore works.

3.3.3 Execution of Tasks

A small number of the tasks originally raised for the off-shore decommissioning work were undertaken by the various EAN departments responsible for the systems.

- 3.3.3.1 Whilst they were actively engaged off-shore removing well-heads and casings/production tubing, etc. the Drilling and Completion Department (DCD) undertook some tasks which were located in the immediate area where they were operating. These were:
 - Task 20MO04 Drilling equipment in Derrick
 - Task 20MO05 Drain Hydraulic system in Derrick
 - Task 20MO06 Remove industrial pumps.
- 3.3.3.2 Production Dept. (PD) also executed some tasks during the course of their normal daily routine work off-shore, e.g.:
 - Task 10MO01 Pigging 26" sealine 'A'
 - Task 10MO02 Pigging 26" sealine 'B'
 - Task 25MO05 Steaming of main gas CDP1
 - Task 25MO13/14/15 Removal of various material/equipment.

An additional four smaller tasks were also performed by Prod. Dept.

- 3.3.3.3 Maintenance Dept. (MD) undertook a number of tasks which were specifically connected to their own system responsibilities e.g.:
 - Task 45IO01 Passivation CDP1 control panel
 - Task 45IO03 Passivation TP1 cabinets
 - Task 45IO18 CDP1 F&G/utility and mimic
 - Task 45IO19 TCP2 interface cabinet
 - Task 45IO20 Passivation of TP1 equipment.

An additional four smaller tasks were also performed by Maintenance Dept.

- 3.3.3.4 The remaining majority of the off-shore decommissioning tasks were executed by the selected contractor AKER MAINTENANCE A/S.
- 3.3.4 Use of Specialist Technicians

Following discussions between TCD and Maint. Dept. it was decided to recruit the assistance of experienced technicians to assist with the removal of various items of equipment which were to be transferred to onshore for eventual storage as spare parts.

These technicians were incorporated into the contractor's (AKER MAINTENANCE A/S) Off-shore Team and functioned as a working foreman for the specific tasks which they had been recruited to assist with. These personnel were hired from BJØRGE OFF-SHORE A/S and had performed identical work on numerous occasions on the Frigg Field for Elf Maintenance Dept.

The tasks which they were recruited to assist with were as follows:

- Task 40MO01 Removal of firewater pump G101A
- Task 40MO02 Removal of firewater pump G101B
- Task 40MO05 Removal of MK60 crane
- Task 40MO06 Removal of National crane.

The assistance provided by these technicians proved beneficial throughout the planning and eventual execution of the above listed tasks.

3.3.5 Decommissioning Crew

- 3.3.5.1 The off-shore contractor Aker Maintenance A/S manning level averaged ten persons throughout the duration of the off-shore works with a minimum of four at the beginning and end of the project and a peak of 16 during the most active period (commencement of Phase 2).
- 3.3.5.2 A scaffolding crew, made available from the Maint. Dept.'s general scaffolding/painting team, was engaged in work onboard CDP1 on a periodical basis. At the peak of their work (October) they totalled three in number.
- 33.5.3 In addition to the above, the Core Team as described in item 3.1.3 of this report functioned throughout the duration of the off-shore decommissioning work.
- 3.3.5.4 Numerous day visits from various project and trade supervisors, N.D.T. operators and inspectors, management personnel etc. occurred throughout the course of the off-shore decommissioning work.

3.3.6 Utilization of Equipment

The necessary use of temporary power and utility supply has already been documented in item 3.3.2 of this report. Further to what has already been stated an appraisal of how the equipment was utilized follows.

- 3.3.6.1 The 380V 50kV electrical generator was fed into a self-standing distribution board. From this board the various consumers were supplied through temporary cables specially pulled for each consumer. These consumers included:
 - three welding machines
 - rig module HVAC
 - Saipem 380V/220V transformer (fresh water supply etc.)
 - pump for flooding the central core
 - helideck, obstruction and nav. aids lights including battery back-up system.

This generator was able to handle the entire output required and as it possessed a large diesel storage capacity it was able to be run for up to three days (depending on consumer load) before refuelling was necessary. As the project reached it's conclusion this particular generator (weight 11 tons) was replaced by a smaller generator (weight 2,6 tons) to enable it's evacuation by helicopter at the conclusion of the off-shore works.

- 3.3.6.2 The 220V electrical generator was fed into a self-standing distribution board. This generator was used daily from the commencement of Phase 2 but it's daily running time was gradually reduced as most 220V consumers were connected to the 380V generator. (See 3.4.6.1). It's limited diesel storage capacity meant that it had to be refilled daily and thus, in the event of a "None shuttle day", it would run dry and shut-down.
- 3.3.6.3 The Ingersoll-rand air compressor, an existing part of the CDP1 utility supply network was utilized right through to when the project neared its conclusion when it was replaced by a smaller air compressor to enable it's evacuation by helicopter.

3.3.7 Tasks Requiring Special Attention

A number of the tasks performed were of such a nature that special attention had to be made to ensure their safe removal. For each of these tasks a dedicated procedure was raised in order to cover all of the necessary planning and execution aspects of the task in hand. Some of these tasks included the following:

- task 20SO03 Remove derrick and substructures
- task 20SO22 Install new walkway bridge
- task 35SO27 Remove flare booms
- task 37SO37 Remove conductor guide frame
- task 40MO01 Remove firewater pump G101A
- task 40MO02 Remove firewater pump G101B
- task 40MO05 Remove MK60 crane
- task 40MO06 Remove National crane
- task 40SO37 Remove diving module
- task 45EO14 Remove all accumulator cells (batteries).

3.3.8 Helicopter Evacuation

Once work on removal of the National crane had commenced and the boom was dismantled there existed no further possibility to load or back-load any material or equipment to or from the supply vessels. From this period of time, however, it was necessary to retain onboard CDP1 a number of items of material and equipment which were required in order to perform the remaining outstanding works, including, most specifically, the removal and skidding of the National crane onto the pipe deck for permanent storage. Thus it became necessary to formulate a plan for the evacuation of this material and equipment by means of a helicopter.

A specific procedure titled "Helicopter Evacuation of Equipment from CDP1 - SPO19, rev. 0" was raised in order to detail the events of the operation. This procedure was reviewed and accepted by all concerned parties both onshore and off-shore including the helicopter contractor HELICOPTER SERVICE A/S.

A Sikorsky S61N helicopter was selected for the work. The lifting capacity of this type of helicopter is normally between 3 and 3.5 tons and it was decided to limit the weight of the various components which were to be evacuated to approximately 2.5 tons in order to ensure compliance with the various restrictions.

At 09:40 hrs. on Thursday 8 November 1990 the first lift was made from CDP1 and transferred to DP2. Twelve lifts later at 11:10 hrs. the evacuation was completed.

A list of the twelve lifts follows:

DESCRIPTION	SIZE (mm) LXBXH	WEIGHT (TONS)
Container for hazardous waste (batteries)	1850 x 2000 x 2710	2,5 t
Air Compressor		2,5 t
220V Generator	850 x 2300 x 1400	1,4 t
380V Generator		1,5 t
Racks 0 ₂ /Acetyl bottles (tara 2400 kg)	1100 x 1100 x 2040	2,4 t x 2
Diesel Fuel Tank (tara 2600 kg)	2180 x 3050 x 2430	2,6 t
Diesel Fuel Tank (tara 1600 kg)	2080 x 1830 x 2380	2,5 t
Trash Container (tara 850 kg)	2000 x 4100 x 1600	2,5 t
Aker Work Equipment (tara 1500 kg)	1850 x 2000 x 2710	2,5 t
Aker Work Equipment (tara 900 kg)	1890 x 2310 x 2070	3 t
Winches (2 off)	1700 x 1100 x 1100	2 t
General Equipment	1850 x 2000 x 2710	0,2 t
	Container for hazardous waste (batteries) Air Compressor 220V Generator 380V Generator Racks 0 ₂ /Acetyl bottles (tara 2400 kg) Diesel Fuel Tank (tara 2600 kg) Diesel Fuel Tank (tara 1600 kg) Trash Container (tara 850 kg) Aker Work Equipment (tara 1500 kg) Aker Work Equipment (tara 900 kg) Winches (2 off)	LXBXH

In addition to performing the evacuation of material and equipment as described the helicopter was also utilized to transport passengers from Sola Heliport to Frigg and from Frigg to Sola Heliport.

3.4 SAFETY DURING OFF-SHORE WORKS

3.4.1 Introduction

The off-shore decommissioning project presented a unique challenge to the Company and, in particular, the TCD. The shutting-down, decommissioning and removal of a number of the facilities and systems had to be approached in a careful manner to ensure that the maximum level of safety was maintained at all times. Some of the tasks performed were a first-time experience and thus, specific arrangements had to be made to realise their safe execution.

A summary of the tasks which demanded special attention due to their size, complexity and innovation can be found under item 3.4.7.

3.4.2 Weekly Verneombud Meeting

In order to monitor and inform those present onboard CDP1, especially following the commencement of Phase 2, a weekly V.O. meeting was held.

During the Phase 1 period and whilst the normal CDP1 platform manning crew was onboard, the weekly VO meeting was held as per standard procedure. This meant that the HVO along with the selected VOs' and management personnel attended the Saturday meeting.

Once Phase 2 was in operation, the entire personnel onboard CDP1 (Contractor Crew, Core Team, etc.) attended the weekly meeting. The meetings were an open forum where each individual had the opportunity to comment on any item of safety and suggest methods of improvement where required.

Minutes of meetings were raised and were used to follow-up the various items of interest and action. One of the actions which was stressed at each meeting was the use of protection eye-glasses and each individual was encouraged to use these glasses at all times. The success of this campaign can be

determined in the resulting list of accidents reported during the course of the off-shore project. (See item 3.4.3). No eye injuries were registered during this period.

3.4.3 Reported Accidents

Throughout the duration of the off-shore decommissioning works from 2 July 1990 to 8 November 1990 three accidents directly related to the decommissioning project itself were reported. These are as follows:

3.4.3.1 Accident date: 900714

at 10:30 hrs. on installation CDP1

Accident Number: 900092

Accident Type: Damage

NPD category:

Employer:

Description of accident:

During the cutting of members of the Derrick above the monkey board, sparks ignited a fried section of the plastic cladding causing a slight damage to a section of the cladding. The fire was extinguished by a powder extinguisher shortly after it started by the Aker Crew in the Derrick.

3.4.3.2

Accident date:

900719

at 10:30 hrs. on installation CDP1

Accident Number: 900096

Accident Type: Near Miss

NPD category:

Employer:

Description of accident:

While removing the outer section after cutting of the flareboom, and during placing of the section on deck, the 10" flare line hit a container. This resulted in that the pipe loosened from the clamps. As the lift had a small angle of inclination the pipe slided out of the clamps and fell into the sea.

No damage to people or platform observed.

Proposed improvements: all pipes on the sections of the flare boom will be secured by welding them to the structure prior cutting the section.

3.4.3.3

Accident date:

901028

at 13:35 hrs. on installation CDP1

Accident Number: 900130

Accident Type: Injury

NPD category:

Employer: EAN

Description of accident:

While moving a container on pipedeck, the guide-line on the container twisted around his left hand index finger. Resulted in strong pull, and brought one of the joints out of position.

3.4.4 Conduct of Work

As can be deduced from the previous item 3.4.3, the conduct of the work off-shore in a safe and efficient manner was, to a very large extent successful.

The Contractor crew consisted mainly of experienced off-shore personnel well versed in the requirements of off-shore construction work and showed a good working knowledge and understanding of the necessary safety and other procedural requirements during the performance of the off-shore works.

3.5 STATUS OF CDP1 AFTER DECOMMISSIONING

3.5.1 Summary

Since 8 November 1990 CDP1 has been a decommissioned and totally unmanned platform. The only systems which are operational are as follows:

- 3.5.1.1 Two white navigation aid lights, one positioned in the north-west corner and one positioned in the south-east corner of the main deck, powered by a solar panel and battery bank.
- 3.5.1.2 One red obstruction light located on top of the rig module roof powered by a solar panel and battery bank.
- 3.5.1.3 The two 26" previously gas sealines, one 8" previously mud-kill sealine and one 4" previously condensate sea-line, all located between CDP1 and TP1, have been prepared in order to provide storage facilities for nitrogen and compressed air. It has been foreseen for the 26" sealine 'A' and the 8" sealine, through an interconnection line between the two, to be used for nitrogen storage.

 The 26" sealine 'B' and the 4" sealine, through a similar type of interconnection line between the two, will provide storage for compressed air.

3.5.2 References

The "CDP1 - Vol. 1 Operations Manual" has been revised in order to reflect the new decommissioned status. This revised issue is titled "CDP1 as a decommissioned platform - Vol. 1 Operational Manual" and should be consulted in order to obtain a detailed status of CDP1 as from 8 November 1990.

3.6 SAFETY DEPARTMENT REPORT

3.6.1 Information in AMU's:

The progress and status on CDP1 decommissioning was referred and commented on under item FRIGG FUTURE in the following AMUs:

BU-AMU 1/89 - 16.08.89 1/90 - 07.02.90 2/90 - 24.04.90 3/90 - 20.06.90 K-AMU 1/90 - 21.02.90 2/90 - 12.06.90

3.6.2 Work performance and discussion with other entities:

3/90 - 12.09.90

Phase I January 1990 - September 1990:

- Tail off production
- Shut in of wells
- Well securing
- Removal of wellheads and conductor pipe

Period:

Mobilization of drilling crew for well securing and removal of wellheads/conductor pipe.

Comments:

- No pre-operation meeting involving the Safety Dep. and the elected V.O. organization.
 Planning deficiences, rush work, short cuts during the first period of above work caused an increase in the hazard potential resulting in unsafe conditions and unsafe acts.
- In Feb. 90 a heavy rise in *reported* accidents were experienced.

 In order to improve the condition and to maintain a closer follow up from a safety point of view the Safety Dept. was requested to provide an extra Safety Supervisor to follow up the night shift in the period from 13.02 till the 20.02.

19.04.90: Meeting w/Smedvig

Such meeting was initiated by Safety Dept. to high-light safety at work after a number of accidents:

NP1 Cat. 1, 2, 3 = 3 NP1 Cat. 0 = 7 Near Miss = 7 in Jan. - Feb. - March 1990.

This was a follow-up of a check initiated by SSI and revealed (3.3.90):

- no systematic training
- work velocity must be in harmony with capability of work force
- new check later.

EAN made it clear that

priority no. 1 = safe production priority no. 2 = safe "drilling" and that OIM "heads the Smedvig activity".

April/June:

Discussions/evaluations of the size and competence of the CDP1 decommission core team with ref. to Continental Shelf Notice 58.

As a result of this SSV was functioning as OIM in decommission fase II.

Meeting 30.05.90: Safety review and/or revision

TCD/Safety - work permit/hot work

- Contingency Plan/Emergency Procedure

po

- stressed the need for pre-job meetings offshore.

TCD sent the detailed plans for the different working operations to Safety Dept. for evaluation/acceptance (Phase II).

3.6.3 CDP1 decommissioning phase

Period:

De-manning date in September to completion 08.11.90.

Timing - Schedule

The accelleration/early completion of Phase I created rush causing short cuts in the phase 2 planning with regard to:

- platform organization
- work preparations
- contracted services
- throughout evaluation of needs related to power/telcom supply/distribution
- safety evaluation hazard identification hazard control/elimination.

De-manning date - practical demanning arrangements:

Uncertainty with regard to demanning date. Upon receiving approval from DEn a hurry-hurry-rush action initiated as to demann CDP1 including removal of contracted as catering services and so on, creating a caotic condition on CDP1.

* The practical arrangements should be planned in this context including giving sufficient time to meet/deal with the various requirements in an orderly manner.

Preparation of work

The actual work showed deviation between drawings and actual lay-out.

- * Derrick; complexity with regard to type of operation weight means and method, considered as underestimated. The same remark is valid for removal of the flare boom guide frames diving unit.
- Time Schedule Time pressure invited to short cuts within the above risky operations.
- * Plan related to removal/cocooning of equipment were frequently changed indicating lack in the pre planning.

Organization/Team Work/Qualifications/Follow-up

More attention should be paid to this vital part of the operation. Pre-operation meetings with key members in all teams should be held, unnecessary change of personnel took place creating irritation and risk of miss in the team work. Also the need for multi-skill personnel able to work closely in teams are a must as to carry out a safe and efficient operation. Alertness is a vital factor in this context. The change from a platform conditions containing automatic detection systems - alarm systems - fire extinguishing means and so on, to our platform conditions depending on each of the team members attention/alertness have been communicated - understood - accepted.

Utilities

Experience a need for maintaining the power supply and distribution net as to maintain sufficient illumination for a longer period than the established. Short cuts made to compensate for this need, (f.ex. the 5.5 kV was kept live into phase II and after decommission of the detector system).

Means for communication as telephones for both internal and external communication need was underestimated.

Safety systems

Need for temporary PA-alarm system was under-estimated. Such arrangements should be provided for.

Communication of authority and operative requirements should be visualized to all team responsible in a way that avoid/prevent mistake done as f.example putting the Sylvania fi-fi equipment for the helideck out of operation before the end of phase 2.

It is also recommended to keep fire water availability for a larger period then the actual case on CDP1.

Communication

The importance of prework meetings as to keep all team members informed - updated should be observed as an important factor.

Such meetings is also vital related to deviation from established procedures when the "chart-land" means methods do not fit together and another approach has to be choosen.

PM routines for temporary equipment

Such routines must be established in order to maintain reliability of such equipment throughout the operation.

Helicopter lifting

Some problems related to deviation from procedure related to information/approach on DP2, i.e. between helicopter crew and platform crew at the start. Otherwise a quick - safe and efficient operation.

3.6.4 Accidents on CDP1 related to the total EAN activity

Accident rate 01.01.90 - 08.11.90

	HMP1	CC	DP2	CDP1
EAN	54	35	65	107
CONTR	88	101	94	53
TOT.	67	67	83	65

Man-year 01.01 - 31.10.90

	HMP1	CC	DP2	CDP1
EAN	93	144	31	28
CONTR.	57	138	53	95
TOT.	150	282	84	123

The conclusion is that the Accident Rate for CDP1 is not any higher than the Accident Rate at the other fixed installations with EAN activity. However, if the incidents not reported to the Authorities are taken into account the picture is as follows:

Near Miss - Damage (by number) 01.01 - 08.11.90

	HMP1	CC	DP2	CDP1
NM	3	13	3	9
DA	3	1	3	2

NPD Cat. 0 (not reportable accidents - by number):

	DP2	CDP1
EAN	0	3
CONTR	1	6

4. CDP1 MANNING

4.1 PRIOR TO DEMOBILIZING LIVING QUARTER

The personnel movements due to the closure of CDP1, was outlined in an IM, ref. no. 311E-FO 89/079/PSE/giw of 18.05.90, signed by P.S. Endresen. (See enclosure 4.1.1).

In this IM the Field manager and the OIM in cooperation with the onshore departments were delegated the responsibility of defining the detailed manning requirements and when positions may be released from CDP1.

The reorganization plan of 28.09.89 stated a reduction of 2 production operator positions when all operations on live wells were completed. The implementation was performed 01.07.90.

In a detailed plan issued 26.06.90 called "CDP1 Decommissioning", signed by Frigg Field Manager G.W. Syslak and HVO T. Lodden, two periods were considered:

- 1st period starting from the day when CDP1 platform is declared "free of gas", and finishing when the living quarters are closed.
- 2nd period starting from the "closure of the living quarters" up to the end of the decommissioning operations.

The normal manning during 1st period was 22 persons (see enclosure 4.1.2), in addition to approximately 35 persons in the TCD crew. Furthermore, a MSD diving crew of 10 persons worked on CDP1 during the weeks 30, 31, 32.

During the 1st period the permanent crew continued to man the emergency organization. TCD should, however, supply a lifeboat crew.

4.2 AFTER DEMOBILIZING LIVING QUARTER

During the 2nd period of decommissioning, the number of workers were limited to the capacity of 2 shuttle helicopter trips, i.e. max. 22 persons in exceptional cases and 18 persons on routine basis. The personnel were accommodated on other Frigg Field platforms.

A core team of Elf employees was originally planned to consist of:

- 1 OIM (with VHF certificate)
- 1 TCD supervisor
- 1 senior electrician
- 1 nurse (if more than 1 helicopter; 9 persons).

See enclosure 4.1.2.

Field Manager H. Delye issued 12.07.90 a note, 311E FFM 90/068/RSL with the subject "CDP1 Decommissioning - Second Period - Manning and Organization". See enclosure 4.2.3.

The core team is now reduced to 3 Elf employees, consisting of:

- OIM/safety supervisor
- TCD supervisor/OIM replacement
- Senior electrician.

After some discussion onshore as well as offshore, the core manning was finally decided to also include a nurse when more than 11 persons were onboard, or when special dangerous operation was planned. (See enclosure 4.2.4).

The "old" OIM/Production Supervisor was stationed on QP with a special responsibility to follow and monitor the work progress and safety on CDP1 and keep the Field Manager informed. See enclosure 4.2.5.

As long as the crane was in use, the crane operator was provided by EAN in order to take advantage of his qualifications related to the emergency organization.

The final core team and emergency organization was issued by H. Delye 21.08.90 in an IM, ref. no. 311E&FFM 90/090/HD/th. See enclosure 4.2.6.

5. FUTURE INSPECTION PROGRAMME

5.1 MARINE STRUCTURE DEPARTMENT

5.1.1 Introduction

The future below water inspection programme for CDP1 in a decommissioned mode has been divided into two different programmes, one basic programme and one environmental based programme.

The basic programme consists of one inspection programme which cover 1/3 of the structure every second year, starting in 1992 and covering the whole structure the following 5 years.

The environmental based inspection programme will be adopted and performed when the maximum wave height recorded exceeds a fixed treshold value, and if the settlement and tilt measurements exceeds the pre-agreed limitation value.

5.1.2 Inspection Philosophy for the Revised CDP1 Programme

5.1.2.1 General

As the CDP1 platform is decommissioned, personnel accidents in normal terms are not very likely. Hence, the responsibility for a decommissioned platform is more clearly expressed in the following objectives:

- a. To prevent accident that could cause undue risk to personnel coming onboard for necessary inspection and maintenance work.
- b. To ensure that the structure is in an acceptable condition and does not represent a hazard to the environment on the Frigg Field.
- c. To be able to detect any major or severe deterioration of the primary structure in order to maintain the Certificate of Fitness.

EAN has taken series of measures, see reference list paragraph 5.1.7, to achieve the above mentioned objectives. The In-service Inspection System (IIS) is one of them.

In order to decide where, how and when to inspect for damage, it is necessary to establish a strategy.

5.1.3 Strategy for the Revised CDP1 IIS-Programme

5.1.3.1 Introduction

The strategy for revision of the IIS-programme for CDP1 is based upon identification of critical areas.

5.1.3.2 Strategy

A thoroughly evaluation has been made of the structure which identified some areas requiring inspection either because there is a higher probability of failure in the areas than any other areas on the installation or because the consequences of failure are high.

Special attention are made towards:

- Areas with a high probability of failure and high consequences. However, the consequences will be much different compared to a producing platform and this have to be taken into due consideration.

Special areas which are identified as problem areas based on the operational history of the platform.

- Areas to be used in the future phase of the platform, such as gangways, stairs and ladders should also be paid attention to.

The review has been based upon special reports, see reference list paragraph 5.1.7, defining critical areas on CDP1 and available annual inspection reports in order to identify which parts are most susceptible considering the established inspection philosophy.

5.1.4 Inspection Types

5.1.4.1 General visual inspection - Type I

Objectives:

- To assess the overall condition of the platform to ensure that the load bearing parts remain in a satisfactory condition.
- To detect any major deterioration
- Observation of foundation behaviour
- Mapping of debris

Where access possibilities are difficult above water, the use of binoculars should be made.

5.1.4.2 Close visual inspection - Type II

Objectives:

 To check closely for selected parts or areas of the structure which are of primary importance or especially vulnerable to damage.

5.1.4.3 Cathodic protection measurements - Type III

Objectives:

- To detect general or local corrosion
- To monitor earlier detected corrosion

5.1.5 Inspection Programme for CDP1, Below Water 1991, 1992 - 1996

Basic inspection programme for CDP1, below water 1991

No below water inspection is planned due to the extensive inspection the last 4 years. However, the below listed environmental programme will apply and will be triggered for 1991 if we have had bad weather conditions which according to the environmental programme require inspection to be carried out.

Basic inspection programme for CDP1, below water 1992 - 1996

The basic inspection programme for CDP1 comprises coverage of 1/3 of the GBS with general visual inspection (GVI) every second year in the five year period, and supplemented by close visual inspection (CVI) of structural parts classified as critical sections in one of the five years. The GVI covers concrete and scouring inspection.

5.1.6 Environmental based Inspection Programme for CDP1 - Below Water

After several years of extensive inspection, one can assume that all defects of any significance originating from the fabrication and installation phases, have been detected.

New damage will later be caused either by accidental events or by extreme environmental loading.

A two level environmental programme is established. First level will be triggered if Hmax exceeds 22 m and will include GVI of the three most cracked ED walls (35, 44 and 65).

The second level is set at 26 m (approximately 75 % of the 100 years wave load). If this wave height is exceeded, a CVI shall be carried out on the three most cracked ED walls (35, 44 and 65) measuring crack growth.

The environmental based inspection programme must be added to the part of the five yearly inspection programme that already is scheduled for the following season.

If the optical settlement measurements show significant changes, the environmental based programme can also be triggered (either first or second level), based on the operational responsible engineer judgement.

5.1.7 Reference list

The revision of the five-yearly below water inspection programme for CDP1 in a decommissioned status has been based on the following reports:

- AAJ Report No. 106-90 (EAN-16)
 Definition of critical areas for the decommissioning inspection programme.
- AAJ Report dated 06.06.90. Frigg CDP1 decommissioning conductor guide frame integrity.

5.2 ENGINEERING DEPARTMENT

Inspection Policy

With reference to report from Inspection Department of 14.01.86 the objectives of the inspection are:

To secure safe access to personnel coming on board for necessary inspection and maintenance work
to concentrate inspection on a few specific areas of high criticality as regards the overall integrity of
the platform or the failure of which would result in large parts of structure/equipment falling down.

Above Water Inspection Programme

The inspection is limited to the air/nitrogen storage (26" risers) and visual inspection of primary structure above water and deck structures and consists of visual inspection only, (binoculars may be used), except for CP measurements in central core.

Items to be inspected:

- break water wall
- support columns
- central core
- main deck structure
- helideck structures
- support points of hanger frames (spot checks)
- authorized stairs, gangways and access ladders
- air / nitrogen storage (26" risers RA and RF)

Inspection Access:

Break Water Wall

Outside, top and inside of the wall can be inspected from vessel and from top of the wall. Access by vessel and permanent ladder from sea level (sketch 5.2.1), or by "safe way" from helideck (sketch 5.2.2).

Support Columns

The condition of the columns and the lower support points can also be inspected from top of the break water wall. The upper support points can be visually inspected together with inspection of main deck structures.

Central Core

Can be inspected externally from break water wall and gangway around central core at break water wall level and from stairs at north side of central core (sketch 5.21 and 5.2.4). Internally the central core can be inspected from service deck 2 and 3 (sketch 5.2.4). The core is planned to be entered for inspection of the 26" risers used as air/nitrogen storage. Safe access down to sea-level is required. Visual inspection of the risers shall be carried out down to sea level, and CP measurements will be made in the central core.

Main Deck Structures

Inspection can be performed from the grating on top of main trusses. This grating is galvanized and in good condition and should remain safe for years without maintenance.

The main deck can also be inspected from the service decks and from the different access platforms below the deck. These platforms can be used as long as they are considered safe without any maintenance.

Other Deck Structures - Helideck

As the main access to CDP1 in decommissioned status is planned to be by helicopter the helideck is to be included in the inspection programme. The north side of the helideck is accessible from the existing gangway below the deck structure (sketch 5.2.2). The gangway should be kept in safe condition. South side the deck can be inspected from pipe deck by use of ladder. Mid section is not accessible as it forms the top of module 6. However, it is well protected by walls.

Support Points of Hanger Frames

Spot checks to be taken. Access from service decks 1-2-3-4 and from marked up access points (sketch 5.2.4).

Access Ways

From helideck to main deck the system of stairs on east side of the platform is recommended used as "safe way".

At main deck safe access ways should be marked to each of the access points 1 to 7. To service deck area the stairs down to service deck 1 is recommended used as "safe way" (sketch 5.2.3).

"Safe way" should also be marked from service deck 1 via top of central core to service deck 3. From service deck 3 the stairs at north side of central core down to break water wall should be used. From break water wall level at central core there should be safe access westward to break water wall. The break water wall top is to be used as access way to the north access ladder to sea.

General

Authorized and safe access ways for maintenance of navigational aids and inspection should be marked up on the platform.

If any additional inspection or testing (e.g. wall thickness measurements) is deemed necessary due to severe deterioration that could jeopardize structural integrity, extended inspection and access has to be considered from case to case.

Manpower

The inspection programme is proposed performed yearly.

Manpower needed:

- inspection from vessel and from top of breakwater wall:

2 men 1 day

- inspection from main deck level, helideck, other structures:

2 men 1 day

- preparation and reporting:

1 man 2 days

This estimate does not include any extended inspection with NDT.

6. COST

6.1 BUDGET/ESTIMATED FINAL COST

Budgets

The initial budget of 35 MNOK approved in Fall '89 was based upon the estimate given in the "Manual for Decommissioning of the CDP1 Platform" issued by Production Department. The manual's cost estimate was 23 MNOK plus 30% contingency or 30 MNOK in total. An additional 5 MNOK was added bringing the contingency factor to over 50%.

The 35 MNOK was maintained in the Spring '90 budget as the work had not yet commenced.

In the Fall '90 budget revision, the approved budget was reduced to 19.5 MNOK or by more than 40%

Estimated Final Cost

The final estimated cost for this work is 14,5 MNOK. This represents a further 25% reduction in relation to the approved Fall '90 budget. In relation to the initial estimate of 35 MNOK, the reduction is nearly 60%.

6.2 MAJOR CONTRACTS

Only 3 major contracts (over > 500 KNOK) were utilized for this work:

Contract No.	Company	Value (KNOK)	Description
90.066	Aker Maintenance	8.000	Main offshore work
8,124	Smedvig	900	Rig down/
			Decommissioning
8.023	Stolt-Nielsen Seaway	950	Rig/Cut cond. guide frame
			removal

The main contract 90.066 can be further detailed as follows:

	KNOK	%
Lump sum work	: 4.600	58%
Reimbursible work	: 1.750	22%
Standby/shuttling	: 400	5%
Equipment rental/purchase	: 350	4%
Cond. guided frame equip.	: 900	11%
Total	: 8.000	100%

Of the lump sum and reimbursable work carried-out, 19% was performed as variation orders.

6.3 OTHER COST

Minor contracts are grouped together in the following categories:

	KNOK
Prep. of offshore tasks	200
Procedures, inspection, etc.	1100
Offshore coordination (contractd)	200
Offshore scaffolding	450
Misc. offshore work	600
EAN ordered materials	750
Navigation aids/obstruction lights	400
Repair/storage of removed equip.	<u>500</u>
- · · - · · · · · · · · · · · · · · · ·	4.200

Comparison Initial Estimated Final Costs

There are 4 major explanations for the 20 MNOK variance between the initial estimate (35 MNOK) and the estimated final costs (15 MNOK):

Cancellation of the permanent protection of riser tunnels
 Incorrect inclusion of internal personnel costs
 2.5 MNOK
 4.0 MNOK

- Actual expended man-hours (22.000 hrs.)

less than the estimated (32.000 hrs.) : 4.0 MNOK
- Contingency factor unnecessarily high : 12.0 MNOK

7. **AUTHORITIES**

7.1 GENERAL

The application for wells abandonment and decommissioning of CDP1 was sent the Department of Energy (DEn) 11 December 1989.

This application was based on the proposal given in the Frigg Field Revised Development Plan of 30 October 1989.

The approval was given by the DEn on 5 February 1990.

7.2 INFORMATION TO AUTHORITIES

7.2.1 Department of Energy

The first meeting with DEn was held on 3 May 1990.

The purpose of this meeting was to inform the DEn of the ongoing wells abandonment campaign and the principles and schedule for decommissioning.

In this meeting the DEn stated that they wanted to be kept informed through status meetings and it was agreed to have a total of 3 meetings (coarse schedule made).

The DEn also confirmed that exemptions from the relevant laws and regulations had to be sought. The exemptions from regulations should be based on the principles described in CSON 58 and CSON 60.

The DEn also emphasized that contact with the Certifying Authority and the Department of Transport had to be maintained in this period.

7.2.2 Department of Transport.

A meeting was held with the Department of Transport (DoT) to inform and discuss the planned decommissioning/removal of safety systems and safety equipment and the planned modifications of the navigational aids on CDP1.

The meeting concluded that exemptions from relevant regulations based on the future status of CDP1 had to be sought.

7.2.3 Certifying Authority (DNVC)

The Certifying Authority (CA) was kept informed through monthly status meetings. This activity started in April 1990.

The follow up was made by minutes of meeting, which contained the spesific requirements to be dealt with.

The Certificate of Fitness (COF) for CDP1 should be maintained for the future status. Amendments to the certificate was done twice.

- 1st. CDP1 was gas free
- 2nd. CDP1 decommissioning completed and exemptions given

The Operations Manual was kept updated as far as possible during the decommissioning period. During the last offshore survey of CDP1 the final set up of the manual was discussed with the CA and final content agreed upon.

Two surveys of the platform was performed by the CA.

The first was performed when the living quarters were abandoned and the second when the decommissioning work was complete.

The requirements in the survey reports have been dealt with by:

- necessary modifications done or scheduled
- updating of documentation.

7.3 EXEMPTIONS FROM REGULATIONS

7.3.1 General

The regulations were exemptions had to be sought were found in the Statutory Instruments (SI) under the Mineral Workings (Offshore Installations) Act.

The exemptions were sought from 4 to 6 weeks in advance of the requested date. It should be noted that no exemptions from CSON's will be given. This was experienced for the first application that was sent. Based on CSON 58 we chose to define the platform as "not normally manned" and based the application on this assumption. This was not accepted by the DEn, who reverted with the formal future status for the platform.

The platform would be classified as" normally manned" until the decommissioning work was completed, from that date the platform would be classified as "not normally manned".

Exemptions were sought for two periods:

- i) CDP1 classified as "normally manned" (CDP1 gas free and living quarters abandoned)
- ii) CDP1 classified as "not normally manned", decommissioning work completed

7.3.2 Temporary Exemptions

The exemptions needed for the period when CDP1 was classified as normally manned was:

```
SI 1019 Reg 22(9)
                       (Helicopter fuel & equipment)
SI 611 Reg 5 (1) & (2) (Automatic fire detection system)
      Reg 6 (1) & (2) (Automatic gas detection system)
      Reg 7
                       (Manual actuated fire alarm system)
      Reg 8
                       (Remote control safety equipment)
      Reg 9
                       (Fire mains system)
      Reg 11
                       (Water deluge system)
      Reg 12
                       (Automatic sprinkler systems)
      Reg 15 (3)
                       (Low expansion foam system)
SI 486 Reg 5 (1)
                       (Survival crafts removal)
```

7.3.3 Permanent Exemptions

As CDP1 would be classified as "not normally manned" after decommissioning the below listed exemptions were required:

SI 1019 Reg 18 (5 & 1) (Signalling equipment) Reg 18 (4) (Signalling Equipment) Reg 22 (7) (Helicopter operations) Reg 30 (1) (Operational Staff) SI 611 Reg 5 (1 & 3) (Automatic fire detection system) Reg 6 (1 & 3) (Automatic gas detection system) Reg 16 (1) (Fireman equipment) SI 486 Reg 6 (1) (Life buoys) Reg 7 (1) (Life jackets) SI 289 Schedule 2, part V, Reg 2 (f) (Helideck lightning)

8.0 CONCLUSION

The CDP1 decommissioning work was completed on the 8th of November after quite an intensive period of preparation and offshore work. The execution of work proved to be a valuable experience for the people involved, and some valuable knowledge was gained.

As can be seen from the previous chapters, the preparation time for the offshore tasks became rather short. This resulted in that more work had to be done on reimbursable price rather than on lump sum. Whether this had as a result that the final cost became higher than it could have been, is difficult to assess, but it is a fact that lump sum work provides the contractor with an intensive to maximise his efficiency, and thus increase his chance of a profit. Since he is in a competitive situation, this normally means that the prices given are lower than the corresponding cost for the same work on a reimbursable basis.

For this type of work, however, the difference seems to be marginal, as the majority of the tasks were dismantling and tearing down. Consequently, the short preparation time is not considered to have had any significant effect on the final cost.

From a safety point of view, the offshore work was very good. Only one of the three reported accidents involved injury to personnel. The two other accidents did not cause any damage to the installation. They might have been avoided had the preparation time been longer, but this is far from certain.

One valuable lesson learned from this effort, is that decommissioning work is far less time consuming than construction. The enclosure 3.2.3 shows that the totally expended man-hours were about 31% lower than estimated by Elf.

The contact made with the different authority entities proved very valuable during the decommissioning phase. As this was the first time such work was ever been done in U.K. waters, the authorities showed a great interest in what we were doing, and welcomed our initiative for the information meetings with great interest. They also proved very useful in supplying us with their points of view regarding the way we had to handle the applications necessary to satisfy the requirements of the British rules and regulations.

One important lesson from this is that sufficient time has to be allowed for the authorities to treat the different applications. Due to the relative short preparation time for this work, we had to issue the applications as we went along. Fortunately, the ground had already been laid when Department of Energy approved the Frigg Field Revised Development Plan in February 1990. This had laid down the principle for the decommissioning work, and as such formed the basis of our work. All in all, it is of great importance to keep the authorities informed at all times about what shall be done, and in this we feel we succeeded.

The planning of the offshore work was basically done by EAN. A detailed plan by tasks was made in the form of a precedence network. Here the sequence of the different tasks was determined with the aim of not "cutting the branch underneath" and to maintain the existing safety level throughout the operation. As became evident during the cause of work, the sequence had not been planned well enough, and some of the tasks had to be shuffled in time in order to accommodate the situation on the platform at any one time. Due to the planning programme set up on Artemis 9000, it was easy to see the delay caused by this shifting of tasks, and corrections could be done immediately to ensure completion within the time frame given. It has to be mentioned, however, that more time should have been spent on the planning function during the onshore preparation phase. This would most probably have allowed for a better utilization of the work force offshore.

The final cost of the CDP1 decommissioning work is estimated to be about 14.500.000,- NOK, which is about 50% of the original estimate. As said previously, the major part of the saving is the contingency factor which was, it seems, unnecessarily high. Other important factors influencing the final cost were caused by the estimated number of offshore man-hours were much higher than the actual hours spent, and that internal costs were lower than budgeted.

	Subject: CDP1 DECOMMISSIONING	Date: 6 March, 1990
	Action: P. SOLHAUG/J.P. FLEURY/J.T. LANGØEN/ A.Ø. PEDERSEN/C. DUVET	From: P.S. ENDRESEN/ E. HJELDE
IM	Info: N. GAMGIT/FFM/E. VOLLAIRE/OIM CDP1/ A. DUPORT/H. LYE/B.O. TVETERÅS/J.F. NADAUD/	Ref. No: 311E-EC 90/ 11910/EH/tt

With the approval of the revised Annex B by DEn, the split of responsibility for the works required to reach Decommissioned Status for CDP1 should be defined.

The following three phases are foreseen for the required work on CDP1:

Phase 1: Parallel production and abandonment of wells

From now until the last well has been cemented in the screen and with the installation made gas free.

Phase 2: Final abandonment of wells

From end of phase 1 until the drilling team has been demobilized.

Phase 3: <u>Decommissioning</u>

From end of phase 2 until the platform has been declared to be in a Decommisioned Status.

Responsible Entity

During all 3 phases FOD shall be responsible for the operation of CDP1; including the works required to make the various systems gas free.

DCD shall be responsible for the works related to the abandonment of the wells and obtaining the DEn's approval for the final abandonment of wells.

TCD shall be responsible for the remaining decommissioning works as defined in PD report "Manual for Decomissioning of the CDP1 Platform", dated 23.11.89. TCD is also nominated responsible for obtaining the approval from DnV - Certifying Authority and British Regulatory Authorities for the various steps in the decommissioning works on CDP1 leading to the final Decomissioning Status. Assistance from HSQA shall in this respect be requested.

If any diving is to be performed on CDP1 during summer 1990, this is the responsibility of MSD.

Works Coordination

A Coordination Group is nominated with the mandate to ensure a good coordination and definition of works between the decommissioning tasks and the production and abandonment of wells throughout the various phases defined above.

Cont.

This group consist of the following members:

TCD: B. Hegrum, Group Leader

PD: K. Kristiansen

L. Wathne DCD: R. Kirkhus ECD: H. Nordbø

MD shall be involved as deemed necessary.

Priority of Offshore Works (tentative dates indicated)

Phase 1: Parallel production and abandonment of wells (Feb. '90 - Sept. '90)

Priority for work on the platform during this phase will be:

Priority 1 Production and abandonment of wells Priority 2 Gas freeing and draining of systems

Priority 3 Diving if required during summer season 1990

Priority 4 Preparatory work for decommissioning

Platform manning is expected to be unchanged during this period.

Phase 2: Final abandonment of wells (Oct. '90 - Dec. '90)

Priority for work on the platform during this phase will be:

Priority 1 Final wells abandonment

Priority 2 Decommissioning work and draining of systems no longer used.

Platform manning during this phase will be adjusted to fill minimum manning to operate utilities and living quarter. The emergency organization will be maintained using the personnel available onboard.

Phase 3: Decommissioning (Jan. '90 - March '90)

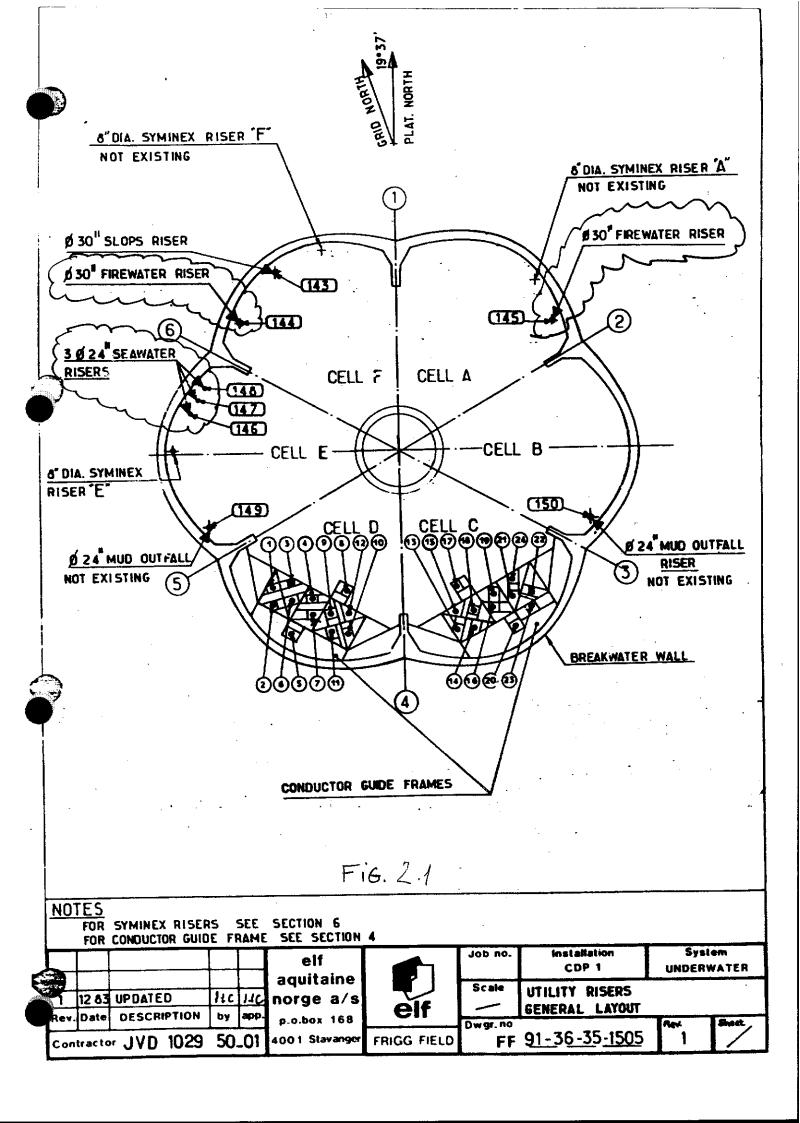
CDP1 is physically isolated from the reservoir and topside production systems are made inactive. Only activities onboard will be the various decommissioning tasks.

PD and MD will secure sufficient manning to operate utilities/living quarter as required by TCD's decommissioning works.

/ Hide

P.S. ENDRESEN

E. HJELDE



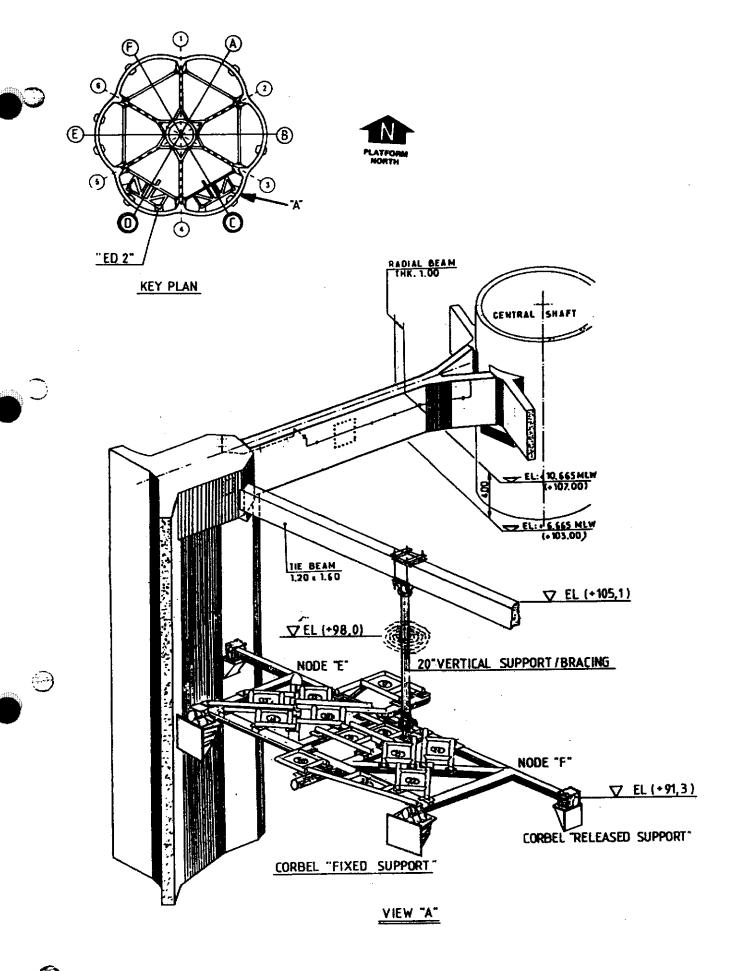


FIG. 2.2 OVERALL VIEW OF THE ADDITIONAL BRACING

 $\frac{2}{1}$ 'n



CDP1 DECOMMISSIONING TASK SHEET

TITLE: BUCYRUS ERIE MK60 CRANE REMOV	AL TASK NO.: 40M005
SYSTEM: UTILITIES	PAGE: 1 of 2
SUB-SYSTEM: LIFTING APPLIANCES	DATE: 15.05.90
	REV.: 01
TASK DESCRIPTION:	
Install jacking platform and skidding frame as required for Disconnect boom tip section and boom insert sections (3 st Disconnect boom foot section. Remove retainers and slew ring bolts. Jack the crane up and pull it into the skidding frame. When the crane is on the pipe-deck, dismantle A. frame an revolving frame onto a supply boat. Remove jacking platform. Install a cover plate on the pedestal flange with bolts. The new skidding frame to be left connected to the crane p The crane to be sent onshore for storage. Weight of crane: Contractor shall design, supply and install all necessary tem	tk.). Indicate with the National crane is able to lift the sedestal. 1. 41.204 kg.
DRAWINGS: MK60 Marine crane specifications.	REFERENCE TASKS: 45E010
MATERIALS/EQUIPMENT:	
MANHR. ESTIMATE:	MANHRS. ACTUAL:
CONTRACTOR REPRESENTATIVE:	SYSTEM RESPONSIBLE:
DATE:	DATE:
EAN REPRESENTATIVE: DATE:	

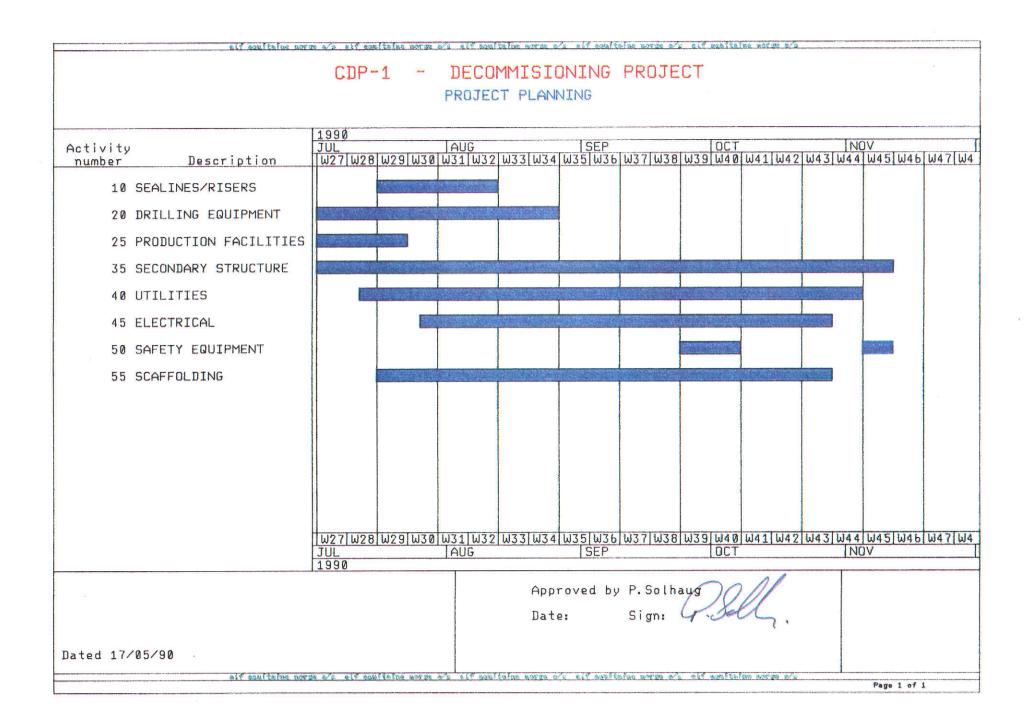
elf aquitaine norge a/s

CONTINUI NO.	90.066
VARIATION ORDER	No.:
00	06/25M017
Date: 26	07 90

norge a	S	Encl. 2.4	.2.2	VARIATION ORDER No.:	25M017
VARIATION O				Date: 26.07	
Project:				Originator:	.30
CDP1 DECO	OMMISSIONING			COMPANY 🗆	CONTRACTOR
AKER MAIN	ITENANCE A/S			AFE:	
	F STUD BOLTS -			Cost Account: 601 9	110 2
Location: TP1 UPPER	LEVEL ZONE 4				
Description of VARIATION:					
The stud	on jack. Actu bolts were tot	pe removed at firsh ox ual work was far more tally corroded to the	than coul lower fla	d be reasonably nge.	jacking ′exp eté ed.
New stud	bolts will be	installed with protec	tion caps	•	
Manhour e	stimate: 80 -	- 31 = 49 hours.			
The following documents fo	orm part of this VARIATION	N ORDER:			
Task 25MO	07				
14011 201.0	J;				
The CONTRACT PRICE sha	ail he adjusted as follows:				
Actual mar					
	32 manhours X	249 -			
		277,			
Lump sum : NOK 7.968,					
11011 7 1 200 1	, [–]				
Time of Performance:		Effect on PROGRAMME:	10	Conditions of Payment:	
Week 30/31-	nn .		-	•	_
MEEK JU/JI-	•90	None		As per contr	act
	N 194/A				
The above variation effect on all other ar	to the SCOPE OF Weas of the CONTRAC	VORK, CONTRACT PRICE and PR	ROGRAMME	are all inclusive and ma	ake provision for any
		For COMPANY		For CONTRACTO	OR
Issued/Received	26.7.90 K.R	ugeldal/L.Karlsen	> Date:		Sign:
	Date: 27089	O Sign:	Date:	1. 10,20	
	Jon 1.	Her			
Approval	Name: 8. Hegrui		Name:	the second section of	11 / P
	. Di nagi ui	iit /	İ		

Title: Constr. Sect. Head

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П	1 14196 23	Encl. 2.4.2.3	1 90.066
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Freies:	VARIATION ORDER	REQUEST	Daile 23 JULY 90
D CDP	1 DECOMMISS	ioning	Originator:
SONTRACTOR AKER	——————————————————————————————————————		COMPANY CONTRACTOR
THE OF VARIATION	SIVER		64-1910
Lodator			553. 45200N
Description of VARI	JPPER LEVEL Z	ONE 4	
REF	TASK 25 MC	106	
ALL STUD	BOLTS HAD TO BE	REMOVED BY FIRST	OVY ACET CLITTING
THEN T	CKING OUT (45 TON	JACK THE STUDS	OXY ACET CUTTING AND
WHEN	THE NEW STURPON	TS ARE laterage	I HE LOWER FLANGE.)
PROTECT	ION CAPS & PROTE	CT THE REST OF	THE STUDBOLT AS
	Soot - PAGE 20	of 4% - Item ?	3. 5. 2 "
MANHR ESTI			
The following document	MEE BELOW		ſ
TASK	25m006		
			÷
INCOMENCE POC	•		
X = AC	TUAL WORK INVOL	VED OFFSHORE	WAS FAR FIRE
, , ,	AND COMPANY DE L'E		TEN CAMBALA
	uld consider /	HBSORBING SOM	E OF THE COSTS
	NSUMED. FINA	HOUPS CONCUR	ED ESTIMATE BOHOVES
T waterials/Edulp	ment:		
- NEW S	TUDBOUTS M70 x 8%	20 PLUS PROTECTION	CAPS ON ORDER
Time of Performance	H COMPANY	ZAMAJE	
			nditions of Payment;
}			
The above venering	1. 1		
effect on all other ar	to the SCOPE OF WORK, CONTRA eas of the CONTRACT.	CT PRICE and PROGRAMME are	e all inclusive and make provision for any
	For COMPANY Date	M	For CONTRACTOR
Issued/Received	235ULT-M. ORAM-	MUNITION 23JULY	W.GRIPPELID- Sign.:
	o die	Date	
Anarova	5-gn	Sign	ž.
Approval	Marrie	Name	
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CDP-1 - DECOMMISIONING PROJECT

BARCHART AT TASK LEVEL

REV. 1 DATED 11-09-98

otivity	Bur-		1996 JUN W2 W25	16/26	TUL 1427 II	100	W29 W30	TAUG	[U33 U34	SEP 635 636	11127 11120	W39 W48	IIIAA IIIA	IND	THAN THAN	1447 144
25M015	6 REMOVE 24 FILTER UNIT	100	MANA	TWXB	WZ1_1	120	MYA 1628	WOI IMAZ	800 1804	INST. INST.	631 1638	1040	M47 1847	1994	1844	
25M013	4 STEAMING OF SAND SCRUBBERS/FILTERS CDP1	199		39/44											1	
20K004	14 REMOVE DRILLING EQUIPMENT INSIDE DERRICK	100				S COMES										
25P002	2 BLINDING OF MAIN BAS TCP2	100													1	
25P003	2 BLINDING OF VENT SYSTEM BOWN STREAM M1-TP1	100													1	
25M005	10 STEAMING OF MAIN GAS CDP1	100			20525										1	
25P008	1 BLINDING OF VENT SYSTEM TO LINE SYST. TP1	160													1	
45E099	2 DISCONNECT ALL CABLES FOR DERRICK	188													1	
565001	120 SCAFFOLDING	100			CONTRACT										1	
2019001	2 REMOVE 4 WINCHES ON BRILLFLOOR	100								N.					1	
28M095	2 DRAINING OF HYDRAULIC SYSTEM DERRICK	100											12		1	
20M006	1 REMOVAL OF INDUSTRIAL PUMPS (SUBSTRUCTURE)	100			2										1	
28P004	2 BLINDING OF VENT SYSTEM M2-TP1	160													!	100
25M006	2 REMOVE BISC. INSIDE CHECK VALVE 26'-P-181 TP1	100			-										1	
25M068	1 STEAMING OF VENT SYSTEM TP1	100			1										1	
28MD10	3 STEAMING OF MAIN GAS TP1	188			250				1					1	1 1	
2511007	2 REMOVE BISC. INSIDE CHECK VALVE 26'-P-185 TP1	100														
251011	3 STEAMING OF MAIN GAS TP1/TCP2	186													1	
49M011	3 PREPARATION OF STEAMING OF HP MUD SYSTEM	100													1	
2514014	6 REMOVE 10 X 0' BALL VALVE	188				3500									1	
40HO16	3 PREP. FOR CLEANING OF LP-MUD SYSTEM	100				50%							1	1		
25MO01	10 STEAM CLEAN VENT SYSTEM CDP1	100				115	2010年						1]]	
49MD17	3 FLUSHING OF LP-MUD SYSTEM	1.00				•									1	
20HD02	20 REMOVE PART OF DIESEL ENGINES	100						N-EDIOLE								
208003	40 REMOVE DERRICK & SUBSTRUCTURES	100					SECTION OF SE		TO CANADA						1	
4015000	3 PREPARE FOR STEAMING OF METH. SYSTEM	188	TOUTORS	11167	TIAS .	- BA		1100	Man IIIa	Les Toy	10-4	198 1072	107 11372	DIN III		
			JUN 1988	16/26	JUL	#Z8	W28 W36	1431 1432 14UG	1633 1634	1955 W36	1637 1638	1639 1449 OCT	1941 1942	1894 1894 INC	W45 1W46	1947 19

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MO10	tion Description 2 REMOVAL OF CORROSION	190	W2 W28 TW26	1927 1928	W29 1W30	W31 1M32	M33 1W39	MOD IMOD	MS (IMSB	IMAR	1.05.9	W97 18137	1054	1990	100.5.113
	INHIBITOR SKID														
@MO23	3 STEAMING OF LP MUD SYSTEM RETURN	100												1	
0HG24	2 METH. WATER SYSTEM VENT TO AIR	100													
.0M001	3 PIGGING OF SEALINE 26'-P-1012 TP1/CBP1	100												1	
0H012	3 STEAMING OF HP MUD SYSTEM	100													
9MD82	3 PIGGING OF SEALINE 26'-P-1017 TP1/CDP1	100												1	
5P012	1 REMOVAL OF INLINE ITEMS ON VENT SYST. CDP1	100												1	
55027	8 REMOVE FLARE BOOMS	100		1	1800000	þ								1	
451001	4 MODIFY OF MIMIC PANEL	100			600					1				1	
51041	14 DISCONNECT PRODUCTION EQUIPMENT	100			EAST-	SIN ASI									
BOCHE	3 STEAMING OF METH. SYSTEM	100			303									561	
6M083	5 BLINDING OF SEALINE 26'-P-1012 CDP1	188													
9H022	2 DRAINING OF CLOSED DRAIN/SLOP SYSTEM	100												1	
51083	4 MODIFY INTERFACE CABINET - TP1	100			150									1	
8MD84	5 BLINDING OF SEALINE 26'-P-1017 CDP1	100												i	
59F23	10 PREFAD. NEW BRIDGE	100				457.45				1					
68F34	10 PREFAB. SUPPORTS FOR SECK TANKS MO	100				1900 E 1000									
6E013	1 DISCONNECT CABLES ON MASONELEIEN PUMPS	100												1	
6H014	25 REMOVE WELLHEAD HYDR. SYSTEM	100				Bind Sept above	es stactuse							1	
1.011095	1 LEAK TESTING OF N2 FILLED SEALINE 1012	188				8								1	
Lemos6	1 LEAK TESTING OF N2 FILLED SEALINE 1017	100				2								1	
L6PO87	8 CORROSION PROTECTION IN J-TUBE	100												1	
551047	4 DISMANTLE EDUCATION EQUIPMENT	100												1	
558022	5 INSTALL NEW 'WALKWAY'	100					(3)							1 .	
358035	7 INSTALL TANK SUPPORTS	100					555555			1					
55925	5 REMOVE WINDWALLS/INSTALL NEW HANDRAILS	100					orto.							1	
55037	8 REMOVE CONDUCTOR GUIDE FRAME	188					(A6376)	1						1	
			G2 W25 TW25	LI97 1LI98	U29 1U30	H31 1639	W33 (W34	MSB IMSA	W37 1W36	W39	1144	W41 1W42	W43 1W44	H45 TH46	W47 I
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otivity number	Dur- ation Description	z compl.	1990 JUN 1471428 11	131	27 1428	1620 1936	TAUG TM31 TM32	1933 1934	ISEP	W37 1W38	1639 G48	1641 1642	INOV	1848 1846	(947 19
46MD83	2 DISCONNECT AIR BOTTLES (MANRIDING WINCH)	100												1	
45E012	4 REMOVAL OFF ALL CABLES FOR DIVING MODULE	100												1	
355029	2 CLOSE-OFF ESCAPE LABDER	100										1		1	
358002	5 LOCKING OF ENTRANCE TO BREAKWATER	100						I E						1	
40H020	3 DRAINING OF SEAMATER SYSTEM	100												ı	
48M028	1 REMOVE 2 OF VIRAS COOLING PUMPS	100						1						1	
4811038	2 REMOVE SEAMATER PUMPS GA 188 A/B	188		1										1	
48M034	1 REMOVE SEAMATER PUMPS GA 187 A/B	188		1				1						1	
48E086	2 DISCONNECT PUMPS 8A 112 A/B/C SEAMATER	100		1				1						1	
4611019	2 VENT & DRAIN COMPR. AIR SYSTEM	198							6				1	1	
48M033	B INSTALL OF NEW NAV. AIDS & OBSTR. LIGHTS	100		1					建				į .	1	
48MD84	8 REMOVE SEAMATER PUMP GA 112 A/B/C	199		1					MERCENTON.					1	
4611036	6 REMOVE UTILITY RISER (EXCEPT FM & SW)	100							Section 1					1	
45E099	1 REMOVAL OF CABLE FOR DIVING PLATFORM	100		1					8					1	
50M003	3 REMOVE LIFEBAVING EQUIPMENT	100		1			and the state of t								
4811087	2 REMOVE INGERSOLL RAND AIR COMPRESSOR	188												1	
4611032	3 DISCONNECT PARTS OF THE DC COMPRESSORS	100												1	
409037	16 REMOVE DIVING MODULE	189					1		3640X-575/05						
45E014	14 REMOVE & SEND ONSHORE ALL ACCUMULATOR CELLS	100								1				1	
45E002	1 DISCONN, CABLES FOR AIR COMPR.	100							n					ı	
4611031	2 REMOVAL OF START AIR COMPRESSORS BA 182	108												1	
38M016	2 SAIPEN LG EVACUATION 3RD FLR CABINS	100								1				1	
35H017	2 SAIPEM LO EVACUATION 2ND FLR CADINS	108													
35H018	2 SAIPEM LB EVACUATION 1RST FLR CADINS	109				1								1	
35M028	42 GENERAL CLEANING	188							7.25		- Carrier			1	
40M085	28 REMOVE MIKES CRANE	100				1		1	ACCOUNT.	Marcoll all to	No.			1	
3511084	3 NEW LA EVACUATION 2ND FLOOR GYNZHOSPITAL	100												1	
			W2 W25	W26		W29 1W30	1631 1632 1605	1933 1934	W38 W36	M37 1M38	W39 W48	M41 1M42	1943 1944 TND	W48 1W46	1947

UPDATE PER 88-NOV-98

Encl.

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CDP-1 - DECOMMISIONING PROJECT BARCHART AT TASK LEVEL

REV: 1 DATED 11-09-90

			1998											
number	Bur- ation Description	aama i.	70N W2 W25 1 W26	W27 1W28	IM29 [M30	AUG 1631 1632	1633 1634	ISEP	IW37 IW30	1939 U40	IW41 IW42	1NO 1843 1844	TH45 TH46	1647 184
35H005	2 NEW LO EVAC 3RD FLOOR	180												1
30MQ06	3 PM4 1RST FLOOR EVACUATION	100						200					1	
35M087	2 PM4 2ND FLOOR EVACUATION	100										1	1 1	
351043	4 DISCONNECT MTI SYSTEM	100						多深。	(1	1 1	
351045	2 REMOVE ENTERTAINMENT EQUIPMENT	100		84				13					1	
10M021	3 DRAINING OF FIRE WATER SYSTEM	100											1	
35MO28	2 INSTALL 'NEW' WIND INDICATOR	100												
351000	2 REMOVE TELEPHONE SYSTEM	188							(1			1	
401015	2 DRAINAGE OF POTABLE WATER	100							į				1	
351042	2 DISCONNECT CONTROL ROOM EBUIPMENT	188	-										1	
40MO02	8 REMOVE FIREWATER PUMP G1818 W/RISER	186												
45E087	1 DISCONNECT PUMPS GA 101 A/B FIREMATER	190											1	
351069	1 REHOVE DATA LINK MODEMS	100								1			1 .	
10MD01	8 REMOVE FIREMATER PUMP G101A H/RISER	100											1	
8 MO29	1 REMOVE SOFT WATER PUMPS GA 105 A/B	100												
88T018	1 REMOVE STENTOPHONE SYSTEM	100							1				1	
551011	2 REMOVE SX100 EXCHANGE	198								1				
551012	2 DISMANTEL/REMOVE TT40 TELEMETRY EQUIPMENT	150												
15E018	4 DISCONNECT CABLE FOR MK60 CRANE	100							Milita					
381013	8 REMOVE EQUIPMENT FROM RADIO ROOM	100			1				(Color)					
36MD26	16 REMOVE CORRODED PIPES & CABLETRAYS	108							No.	Secretary Control			l i	
58M085	3 NEW FIRE FIGHTING EQUIPMENT HELIDECK	100							1200					
36M046	2 REMOVE OIL STORAGE TANK	186							屋	1		1	1 1	
18M013	3 PREPARATION OF STEAMING OF GAS, DIL SYSTEM	188							秦 室				1	
35M019	2 REMOVE FIRE FIGHTING EQUIPMENT HELIDECK	180												
56HD62	3 REMOVE ALL FIRE FIGHTING EQUIPMENT	100							J. Sell.					
851014	2 REMOVE RADIOS/WALKIE TALKIES	100												
51015	2 NEW RIG MOBULE EVAC. 1 FLR COF. SHOP/OFF	100											1	
			W2 W25 TW26	W27 W26	W29 [W30	W31 1W32	W33 W34	W38 W36	W37 [W30	M28 M40	W41 TW42	W43 TW44	W45 W46	947 TW
			1990	100		ACMV		1 det		TAN		TOU		

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CDP-1 - DECOMMISIONING PROJECT

BARCHART AT TASK LEVEL

						REVs 1 DATED	11-09-90							
Activity	Dur-		1980 708 621626 1626	70.	TORK TORK	IAUG 1074	1004 1043	18EP	IDES IDEA	Was Dan	[141 142	INO	[M42] [M45	1997 1998
ABMO26	4 STEAMING OF GAS OIL	100	WZI WZD I WZD	MZT 1MZG	WZ8 1858	WOL THISE	M33 1834	#30 T#30	1859	1031 1038	1892	1011	1000	1991 1990
45E016	SYSTEM 1 DISCONNECT 2 OF BC SENERATORS	180												
361038	1 REMOVE TERMINALS & PRINTERS FOR MIS	188				1				i E				
351040	6 DISCONNECT FIRE DETECTION EQUIPMENT	100											1	
381044	6 DISCONNECT GAS DETECTION SYSTEM	100								No.				
4611018	2 DRAINING OF STEAM SYSTEM	180					1			63			1 1	
481027	6 REMOVAL OF 2 DC GENERATORS	100					1						1	
45E011	1 DISCONNECT ALL HALON BOTTLES	100								0				
5811094	5 DISCONNECT ALL HALON BOTTLES	100										1	1	
4811025	2 DRAINING OF SEAMATER TANK FB112	100								-			1	
40M006	20 REMOVE NATIONAL CRANE	100						1		and the	of Education		1 1	
35H021	18 PAINTING/HARKING/LABELIN G ESCAPENAY	100								quint				1
355001	16 LOCKING OF ENTRANCE TO HODULES	100									The Value			
45E018	1 DISCONNECT CABLE FOR NATIONAL CRAME	188									0		1	
45E085	1 SHUT-OFF ALL CIRCUIT BREAKERS	100											1	
594001	8 REMOVE S LIFEBOATS	199			1				1				1	
45E094	2 DISCONNECT POWER SUPPLY CABLE	186												
													1	1
										1				
				11										
										1				1
													1	1
				17						1				
											1		1	
			1988 1986 1988	WZ7 1W28	1229 1338	W31 1632	W33 1W34	W38 1636	W37 TW38	1938 1948	W41 1W42	1943 1944	W45 1W46	W47 1946
			1991	404		TAUG		EEP		IOUT		LNO		

UPDATE PER 88-NOV-98

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** CDP1 DECOMMISIONING 1990 *

AKER MAINTENANCE STAVANGER A.S.

AMS PROSJEKTNR:

55056

ACTIVITY	DESCRIPTION	EST MHRS	ACTUAL BHRS	PLAN Progr	ACTUAL PROGR	2 JUL I	9 Jul 9	16 JUL I	23 JUL I	30 JUL I	6 AUG -I	13 AUG	20 Aug I	27 AUG I	3 SEP I	10 SEP I	17 SEP I	24 SEP	1 0CT	8 OCT	15 0CT	22 0CT	29 0CT	5 HOV I
205003	REMOVE DERRICK & SUBSTRUCT.	1300	1124	100	100	111111					1	I	 I	1	I	I	I	 1		- 1	 I	 I	 T	 T
4050011	PREP. FOR STEAMING MP MUD SYST	1 6 6	110	100	100	111111	: I	I	Ĭ	1	1	1	I	I	I	Ī	Ī	ī	ī	Î	Ī	i	Ť	i
45E0009	DISCON ALL CABLES FOR DERRICK	58	58	100	100	::	I	I	I	I	I	ĭ	1	1	1	1	Ī	Ī	ī	ī	Ť	Ť	Î	Ť
351041	DISCONNECT PROD. EQUIPMENT.	165	11	100	100	I ::::	111	I	Ī	1	I	I	I	I	I	I	I	I	Ī	Ī	Ī	Ī	Ī	ì
25P002	BLIND OF MAIN CAS TCP2.	30	90	100	100	1	1	I	I	1	1	I	I	1	1	I	Ī	I	Ī	Ī	ī	ī	ī	ī
25P012	REM. INL. ITEMS ON VENT S.COP1	84	7	100	100	1 ::	::	I	ĭ	I	1	1	1	1	1	I	1	1	I	ï	Ī	Ī	Ī	Ī
25P003	BL. VENT SYST, DOWN ST.N1-TP1.	22	4	100	100	1 :	1	Ī	I	I	I	I	1	1	1	I	I	I	I	Ī	1	Ī	1	1
25P004	BL. UENT SYST. DOWN ST.N2-TP1.	23	3	100	100	Ì	:1	I	I	I	I	I	1	I	I	ţ	I	I	I	I	I	Ī	ī	Ī
250006	REMOVE DISC. 26"-P-101 TPI.	31	63	100	100	I	::	I	I	I	I	I	I	1	1	I	I	1	I	Ī	I	Ī	ī	Ī
40/10012	STEAMING OF HP HUD SYSTEM.	30	43	100	100	I	:	I	I	I	I	I	I	I	I	Í	ţ	I	1	1	ī	ī	Ī	Ī
250011	STEAMING OF MAIN SAS TP1/TCP2.	110	134	100	100	1	I::::	:: I	I	I	Ī	İ	I	I	I	1	1	I	Ī	I	Ī	Ī	Ī	ī
4090014	REMOVE HELLHEAD HYDR. SYST.	760	338	100	100	I	1::::	:::::::	:::	I	I	I	I	1	1	I	I	I	1	I	I	Ī	Ī	1
258007	REHOVE DISC. 26"-P-105 TP1,	31	-	100	100	1	1 ::	I	I	I	I	I	I	I	I	I	1	1	I	I	1	Ī	1	ī
351044	DISCOMMECT GAS DET. SYSTEM.	154	102	100	100	I	I :::	:::	I	I	1	I	1	I	I	I	ī	I	I	Ī	I	Ī	Ī	Ï
25/1001	STEAM CLEAN VEHT SYST. COP1	150	119	100	100	I	I	:::::	I	1	I	I	I	Ī	1	1	1	1	1	I	I	I	I	1
25P0Q8	BL. VENT SYST, TO LIVE S TPT	. 8	8	100	100	I	I :	-	I	I	I	I	1	I	I	I	I	I	I	1	I	I	I	I
10/1003	BL.OF 26"-P-1012 CDP1 SEALINE	34	74	100	100	I	I	∷I	1	I	I	I	I	I	I	I	1	3	1	1	I	I	I	1
2011006	REMOVE IND. PUMPS(SUBSTR.)	22	-	100	100	I	I	:I	I	I	I	1	1	I	I	1	Γ	I	I	Ī	I	I	1	I
2011001	REMOVAL OF WINCHES ON DRILLFL.	44	57	100	100	Ī	I	::	I	1	I	I	I	I	Ţ	Ţ	I	I	I	I	I	I	I	I
250010	STEAMING OF MAIN GAS TP1.	60	58	100	100	I	I	:::	Ī	I	1	1	I	1	I	1	1	1	1	1	1	1	1	1
10/1004	BL. OF 26" -P-1017 SERL. CDP1,	34	55	100	100	I	I	I::	I	I	I	I	I	I	I	1	I	I	I	I	I	I	Ī	I
351012	REMOVE 1140 TELEMETRY EQUIPM.	94	8	100	100	I	I	I::	1	1	1	I	I	I	I	I	1	I	1	I	1	I	1	ľ
355027	REMOVE FLARE BOOMS.	156	102	100	100	1	I	I ::::	::	I	I	I	I	I	I	Ī	I	I	1	I	1	Ī	1	I
25/1009	STEAMING OF VEHT SYSTEM TP1.	25	58	100	100	1	I	Ι:	I	I	I	I	I	I	t	I	I	I	Ī	I	I	Ī	Ī	1
	LEAKTEST OF SEALINE 1012.	66	24	100	100	I	1	I ::	: [1	I	I	I	Ī	I	I	1	1	I	I	1	I	I	I
10P007	CORROSION PROTECTION OF J-TUBE	50	8	100	100	1	I	I :	I	-	I	I	1	İ	I	I	1	I	1	1	1	İ	I	I
	LEAK TEST OF SEALINE 1017.	66	38	100	100	I	I	I	:::	I	1	1	I	I	1	I	I	İ	I	I	I	I	I	I
350026	REMOVE CORRODED PIP. & CABLETR	950	936	100	100	I	1	I	I :::		::::::	:::::::	*****	tit	I	I	Ī	I	I	I	ī	Ī	I	I
4000003	DISCONN. AIR BOTTLES, (MANR.N.)	22	24	100	100	1	I	I	1:	I	Ī	I	1	Ţ	1	I	I	I	I	I	I	Ī	Ī	Ī
	PREP. FOR CL. OF LP BUD SYST.	242	152	100	100	Ī	I	I	I ::		I	I	1	I	I	I,	I	I	I	I	I	I	I	I
	DISC. PARTS OF THE BC COMP.	82	49	100	100	I	1	I	I ::	: I	I	I	I	1	I	I	I	I	1	I	Ι.	Ī	1	Ī
	REMOVE PARTS OF DIESEL ENG.	205	97	100	100	I	I	I			1	I	1	1	1	1	1	Ĭ	1	I	I	I	I	1
	REHOVAL OF 2DC COMU. SET	300	76	100	100	I	I	I	I	::::::	1	I	1	1	1	I	İ	1	I	1	1	I	I	I
	CLEANING OF JET FUEL SYSTEM	30	32	100	100	I	I	Ī	Ī	; :	I	1	I	I	1	1	I	I	I	1	I	1	1	1
	LOCKING OF ENTR. TO BREAKWATER	42	12	100	100	I	I	I	I	I ::	I	I	I	I	I	I	I	1	I	I	1	I	1	Ī
	INST. HEW WIND INDICATOR.	26	13	100	100	I	I	I	I	I :		I	I	I	I	I	Ĭ	1	I	I	I	Ī	I	I
	CLOSING OF ISCAPE LADDER,	15	10	100	100	I	I	I	I	I :	Ī	I	I	I	ī	I	1	I	Ĭ	I	I	Ī	Í	Ī
	FLUSHING OF LP NUD SYST.	90	31	100	100	I	I	I	1	1 :	::	I	I	I	I	Ī	I	Ī	I	Ī	I	Ī	Ī	ī
	INST. HEH HAV. AIDS % OBSTR.L.	100	284	100	100	I	I	I	I	I	:::::	1	I	I	I	I	I	I	I	I	I	Ī	Ī	Ī
	DRAIN.OF CONTR. VALUE ACTIVATOR	268	6	100	190	1	Ī	I	I	I	:::::	::::	I	I	I	I	I	I	Í	I	Ī	Ī	Ī	ī
	STEAMING OF LP HUD RETURN L.	30	35	100	100	I	I	I	1	1	I :	I	I	I	I	I	1	I	Ī	Ī		Ī	Ī	ī
1010013	PREP. FOR ST. OF GAS/OIL SYST.	185	-	100	100	I	I	Ī	I	1	I :::	:::::	1	ī	1	I	7	ī	7	Ī		ī	Ŧ	-

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CDP1 DECOMMISIONING 1990

AKER MAINTENANCE STAVANGER A.S.

AMS PROSJEKTNR: 55055

ACTIVITY	DESCRIPTION	EST HHRS	ACTUAL MMRS	PLAN PROCR	ACTUAL PROGR	2 JUL I	9 JUL I	16 JUL I	23 JUL I	30 JUL I	6 nus I	13 AUG -I	20 AUG I	27 AUG	3 SEP 1	10 SIP I	17 SEP I	24 \$EP I	1 0CT I	8 0CT I	15 0C1 I	22 0C1 1	29 OCT I	5 HOU I
35\$022	INSTALL HEN "WALKWAY" BRIDGE.	200	549	100	100	I	I	I	I	I	ī	I :	:::::	 I	I	 I	 [τ	·	7	T	T -	†	τ
40119026	STEAMING OF GAS OIL SYSTEM.	50	-	100	100	I	I	I	Ī	Ī	Ī	Ī:	: I	ī	ī	Ī	ī	Ť	Ŧ	Ī	ī	Ť	Ť	ī
358025	REM. WINDWALLS/ INST. HANDR.	210	94	100	100	Ī	I	Ī	Ī	Ī	Ī	Ī		::::	Ī	ī	ī	ī	ī	7	i	Ť	Ť	Ť
355037	REHOVE CONDUCTOR GUIDE FRANE.	55	1976	100	100	I	I	I	Ī	Ī	Ī	Ī	_	::1	Ī	Ī	Ī	ī	ī	ī	Ī	Ť	Ť	Ť
358023	PRINT./MARK./LABELLING ESC.N.	85	228	100	100	I	1	I	I	1	Ī	1	1	1111	Ï	Ī	Ĭ	ī	ī	î	Ī	Ť	Ť	i
45E0008	REM. CABLE FOR DIVING MODULE.	13	9	100	100	I	I	I	Ī	Ī	Ī	1	Ī	:I	Ī	Ī	ī	1	7	Ť	ī	î	7	ī
40110018	DRAINING OF STEAM SYSTEM.	88	57	100	100	I	I	Ī	Ī	Ī	I	Ī	Ī	111	Ī	ī	Ī	Ī	ī	Ť	ī	ĵ	Ť	î
45E0012	REM. OF ALL CABLES FOR DIV.M.	25	5	100	100	I	I	I	1	I	I	Ī	ī	:	1	ī	Ī	Ť	ī	7	î	î	Ī	7
45E0014	REM. SEND ONSH, ALL ACC. CELLS.	148	115	100	100	I	1	Ī	Ī	Ī	Ī	Ī	ī	I:::::	::I	ī	ī	Ī	ī	1	î	Ť	Ť	Ť
4000020	DRAINING OF SEANATER SYSTEM.	66	36	100	100	I	I	1	Ī	Ī	Ī	Ī	ī	Ī :::	_	ī	Ī	Ť	ī	ř	Ī	ř	Ť	Ť
4050037	REMOVE DIVING HODULE.	230	209	100	100	1	I	I	Ī	Ī	Ī	Ī	Ť	I ::::		Ť	Ť	Ť	Ť	Ť	Ī	Ť	ř	Ť
358016	EVAC. SATPEN 3RD FLOOR CABINES	22	17	100	100	1	Ī	Ī	ī	ī	ī	Ī	Ť	:: Ī	_	ī	ī	ī	7	Ī	Ī	Ť	Ť	Ť
350017	EVAC. SAIPEN 2ND FLOOR CABINES	28	16	100	100	Ī	Ī	Ī	Ī	ī	Ī	Ī	Ī	_	:Ī	ī	7	ŧ	Ť	Ī	Ī	1	Ť	T
40110030	REN. SEA MATER PUMPS GA108A/8.	18	15	100	100	Ī	Ī	Ī	Ī	ī	ī	ī	ī		T	Ī	i	1	Ť	Ī	Ī	Ţ	Ť	Ť
358020	GENERAL CLEANING.	1250	1216	100	100	Ī	ī	ī	1	Ī	Ī	Ī	ī		1111111	_		.				. 7	1	Ť
35#046	RINDUE DIL STORAGE TAMK.	40	10	100	100	Ī	I	ī	1	1	ī	7	ī	-	::	Ī	7	T	7	I	7	7	*	Ť
4000015	DRAINAGE OF POTABLE WATER SYST	54	6	100	100	Ī	Ī	Ī	ī	Ī	ī	ī	ī		::	Ī	ī	ī	ī	ī	ì	7	Ī	T
351008	REHOVE TELEPHONE SYSTEM.	53	6	100	100	Ī	Ī	ī	7	Ī	Ī	7	ī	ī	::	ī	ř	Ť	7	Ī	Ī	Ť	Ī	Ť
351010	REHOUE STENTOPHONE SYSTEM.	32	4	100	100	Ī	Ī	ī	ī	ī	î	ī	ī	i	;:	i	Ť	ī	Ť	Ī	Ī	Ť	7	7
350018	EVAC. SAIPER 1ST FLOOR CABINES	16	12	100	100	Ī	ī	Ī	Ĩ	ī	ī	ī	ī	1	:	Ī	î	1	ī	Ī	Ī	7	7	7
5000001	REHOUE FIVE (5) LIFEBOATS.	66	21	100	100	Ī	Ī	ī	Ī	ī	ī	<u>.</u>	ī	i	::	ì	Ť	Ī	* T	i	I	Ť	Ī	7
35#004	MEN LQ EVAC. 2ND FLOOR GYN/H.	22	33	100	100	Ī	Ī	ī	Ī	Ī	ī	ī	Ť	ī	1:	Ī	Ť	î	i	i	Ì	Ī	Ī	1
4060021	DRAINING OF FIRE WATER SYSTEM.	90	47	160	100	I	ī	Ī	Ī	Ī	Ī	Ī	Î	ī	I::::	i	ŕ	1	1	Ì	Ī	Ī	ī	7
35/1005	MEH LQ EVAC. 3RD FLOOR.	22	27	100	100	I	Ī	Ī	Ī	ī	Ī	1	Ī	Ī	ī	Ť	Ť	ŧ	÷	Ī	Ť	Ī	Ī	7
351014	REHOUAL OF RADIOS/HALKIE T.	14	7	100	100	1	Ī	1	1	ī	Ť	Ī	ī	ī	Ī	i	ī	Ţ	Ť	i	Ī	Ī	t	, T
351040	DISCON, FIRE BET, EQUIPMENT,	136	24	100	100	Ī	Ī	Ī	Ī	Ī	Ī	Ī	ī	i	1	_	Ť	Ţ	1	Ì	7	Ť	Ī	†
4050007	REMOVE INSERSOLL RAND AIR COMP	80	22	100	100	I	I	Ī	Ī	Ī	I	Ī	Ī	ř	f :::	-	ī	Ť	Ī	Î	Ī	Ť	Ī	ī
45E0002	DISC. CABLES FOR AIR COMPR.	8	-	100	100	I	I	Ī	Ī	Ī	ï	Ī	ī	ī	ī	Ī	Ť	i	Ť	İ	r r	Ť	Ť	Ť
40110035	CRAME HANDLING	1155	711	100	100	I	I	Ī	Ī	Ī	Ī	Ī	Ĩ	Ī	Ī ::::	1111111						11111		t
354006	PM4 IVACUATION - 1ST FLOOR.	17	22	100	100	I	I	I	I	I	I	I	Ī	Ī	: 1	I	I	Ī	1	1	ī	Ŧ	Ţ	7
351038	REM. TERM. & PRINTERS FOR MIS.	6	6	100	100	I	I	1	Ī	I	Ī	Ī	Ī	Ī	Ī:	Ī	Ī	ī	ī	1	1 .	Î	ī.	î
40110028	REM. 2 OF VIRAS COOLING PUMPS.	18	-	100	100	I	I	I	1	Ī	1	Ī	1	Ī	Ī :	Ī	Ī	ī	ī	ī	ì	ī	İ	Ì
35H007	PM4 IVACUATION - 2KD FLOOR.	13	16	100	100	I	1	I	I	I	I	I	I	Ī	Ī;	Ī	Ī	ī	Ī	ī	Ī	Ť	î	î
351042	DISCONNECT CONTR. ROOM EQUIPM.	20	-	100	100	I	I	I	I	I	I	Ī	ī	ī	ī	Ï	Ī	ì	ī	Ť	Ī	Ť	ŕ	1
355001	LOCKING OF ENTR. TO MODULES.	116	76	100	100	I	I	1	I	I	I	I	I	I		1111	Ī	Ī	ī	i	ī	î	Ť	7
351043	DISCOMECT MII SYSTEM.	60	58	100	100	I	İ	1	I	I	1	I	I	I	_	::	Ī	Ī	Í	Î	Ī	Ť	Ť	ì
	REM. FIREW. PUMP G101A N. R.	220	114	100	100	I	1	I	Ī	1	I	1	1	I		:::::	ī	Ī	Ī	Ī	î	Ť	Ī	Ť
40/10019	VEHT & DRAIN COMPR. AIR SYSTEM	55	40	100	100	I	Ī	Ī	Ĩ	I	1	I	1	ī	_	:1	Ī	Î	i	î	ī	i	Ī	î
50110002	RIM. ALL FIRE FIGHTING EQUIPM.	196	90	100	100	I	I	ī	Ī	ī	ī	I	ī	ī	ī	11111	•	Ť	ī	Ī	Î	Ť	1	1
351047	DISH,/REN. EQUIPH, FOR EDUCAT.	22	11	100	100	Ī	Ī	Ī	Ī	Ī	I	I	Ī	ī	ī	I:	I	Ī	Ī	Ť	Ť	Ī	Ţ	Í
351045	REHOVE ENT. EQUIPMENT,	26	12	100	100	Ī	Ī	ī	ī	ī	ī	Ī	ī	ī	ī	I:	Ī	Ī	ī	Ī	Ī	Ī	Ī	1
45E0007	DISCON, PUMPS OR 101 A/B F.N.	8	59	100	100	Ī	ī	Ţ	ī	Ť	Ī	•	-	-	ī	I:	:	Ť	ī	Ī	Ī	-	-	Ī

AKER MAINTENANCE STAVANGER A.S.

AMS PROSJEKTNR:

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CTIVITY	DESCRIPTION	EST TIHRS	ACTUAL THRS	Plan Progr	ACTUAL PROGR	2 JUL I	9 JUL I	16 JUL I	23 JUL I	30 JUL I	6 AUG I	13 AUC I	20 AUG I	27 AU© I] SEP I	10 SEP	17 \$EP	24 SEP	1 0CT	8 OCT	15 0CT I	22 0CT	29 0CT	5 MOU
40110029	REM. SOFTWATER PUMPS GA 105A/8	18	15	100	100	 t	7				-	 T			******				-		. <u>.</u>	-		-
	DISC. PUBPS CA 112A/B/C S.N.	10	7	100	100	Ť	Ť	Ť	7	7	7	1 1	+	1	, ,	I :	*	, ,	1	1	1	I.	<u>-</u>	Ī
	REM. SEAWATER PUMPS GA 107A/B.	18	14	100	100	Ť	Ť	Ť	, ,	Ť	7	Ť	4	Ŧ	<u>,</u>	T .		±	1	Ť	1	1	1	1
	REM. FIREM. PUMP GLOTE. M.R.	220	69	100	100	•	÷	Ť	Ť	Ť	Ť	Ť	7	7	1	· •		Ť	1	1	1	1	Ţ	Ţ
	REM. SERN, PUMP GA112 A/B/C.	290	41	100	100	Ť	Ť	Ŧ	Ť	÷	Ť	1	*	Ť	4	= =	******		1	1	1	1	- ī	Ţ
	DISCONNECT ALL HALON BOTTLES.	16	3	100	100	7	7	Ť	Ť	+	Ť	+	7	7	,	1	::::::: :: 1	. 1	1	1	ī	Ţ	Ī	1
	REMOVE DATA LINK HODERS.	13	6	100	100	÷	Ť	•	, T	7	, T	1 T	7	1	1	1	11	Ť	I	1	1	1	1	1
	REMOVE SX100 EXCHANGE	44	6	100	100	Ť	7	7	Ť	T .	ī	<u>.</u>	+	1	1	1	; T	1	1	1	ī	1	1	Ī
	REMOVE LIFESAVING EQUIPMENT.	78	29	100	100	7	I T	* T	1	7	7	, 1	7		ĭ	1	I::	1	1	1	1	1	1	I
	REMOVAL OF EQUIPM. RADIO ROOM.	66	28	100	100	Ī	T	7	1	7	1	÷	1	1	1	1	Į:::	1	1	I	1	1	I	1
	INSTALL TANK SUPPORTS.	100	393	100	100	T .	1	+	1		1	ī	1	1	1	Ţ		1	1	I	I	1	I	I
	BR. OF SERNATER TANK FB 112.	13	373	100	100	Į.	1	1	1	Į.	1	1	1	1	1	İ	1 :	177	I	I	I	I	I	I
	DR. OF CLOSED DRAIM/ SLOP SYST	55	8	100	100	4	1	1	1	Ţ	1	ŗ	1	1	1	1	1 :	1	I	I	Ι	I	Ι	1
	EVAC. 1ST FLOOR COF. SHOP/OFF.	18	_	100		7	1	1	1	1	Ţ	1	i	ı	1	I	I	:: I	I	I	Ι	1	I	I
	RIH. UTILITY RISER. (EX. FM/SM)		12		100	1	7	1	Ţ	1	ī	1	1	1	I	I	1	:1	I	Σ	I	Ι	1	1
	DISC. CABLE FOR HK70 CRAME.	155	97	100	100	i -	i	1	I	1	Ī	I	I	I	I	Ţ	1	11111	1	1	I	I	İ	I
	REM. START AIR COMP. BAT & 2.	80	14	100	100	1	1	1	ī	1	I	1	1	I	I	I	I	() :	I	I	1	I	I	I
		27	11	100	100	I	1	I	I	I	I	I	I	I	1	I	1	Ι:	I	I	Į	I	I	1
	REMOUE MK 60 CRANE.	1250	940	100	100	I	1	1	Ī	I	I	I	1	I	1	1	I	1 ::		::::::	:::	1	I	1
	MODIFY OF MINIC PANEL.	300	400	100	100	I	I	I	I	I	I	I	I	I	I	I	I	Ι	:::::	1	I	I	I	I
	DISCONNECT ALL HALON BOTTLES.	66	36	100	100	I	Ι	1	I	1	I	I	I	1	1	I	1	1	:::	1	1	Į	1	Į
	REMOVAL OF F.F.EQUIPM. HELIB.	165	17	100	100	I	I	I	I	I	1	1	I	I	I	I	1	ī	:::::	:: 1	I	I	I	1
	HODIFY INTERFACE CABINET TP1.	100	100	100	100	1	I	I	I	I	I	1	1	I	1	I	I	I	1 ::	:::	I	Ī	I	I
	MEN FIRE F. EQUIPM. FOR HELID.	105	9	100	190	I	I	I	1	I	1	1	I	I	1	1	1	I	I	::::	I	I	1	1
	DISCON. CABLE FOR MAT. CRANE.	17	-	100	100	I	Í	1	I	I	I	I	Ī	I	1	I	I	I	Ī	1	: I	Ī	Ī	I
	REHOVAL OF NATIONAL CRANE.	1650	475	100	100	I	I	I	I	1	I	1	I	I	1	I	I	I	1	I	11111			:::1
	DISCONNECT POWER SUPPLY CABLE.	44	44	100	100	I	I	I	I	1	1	I	I	I	I	I	1	I	1	I	I	ī	I	::1
15E0005	SHUT-OFF ALL CIRCUIT BREAKERS.	27	3	100	100	I	1	I	1	I	1	I	1	Ĭ	1	I	1	I	1	1	1	1	I	:
	TOTAL	16308	13210	100.0	100.0							*												
355F34	PREJAB SUPPORTS FOR PUMP/TANK	142	152	100	100								_			·_	_		_				_	
	PRETAB WALKWAY BRIDGE	1200	1170	100	100	T					_	1	1	1	i	I	I	I	I	I	I	I	I	I
	PRETAB SKID FOR MKGO CRAME	460	520	100	100	* T	1 11		.,				I	ī	ŗ	1	1	I	Ļ	I,	I	I	I	I
	PREFAB SKID FOR MATIONAL CRAME	450	27.6	100	100	Ī	Ī	I	I	I I	1 :	i i i i i i i i i i i i i i i i i i i	::::::: T	::::: - 1 -:-:	1	. I	,	I	I T	I T	I	I	I	I
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UL-90			:8 *	I	Ī	I	Ĭ	I	I	I	1 1	3698	22.7	121	0.7	3353	20.6	244	1,5	2238	152		
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	31-901 1-HOV (2-HOV	-90 :: -90 ::	::::::::::::::::::::::::::::::::::::::	I I	1	I I	I I	I I I	I I i		I I	1 6 16 18	* I * I	1 1		97.9 97.9 98.5	94 94 94	0.6 0.6 0.6	14759 14857 14927	90.5 91.1 91.7	147 98 98	0.9 0.6 0.6	12682 12770 12872	84 89 107	
	3-HX 4-HX (5-HX	-90 ::	::::::::::::::::::::::::::::::::::::::	I I	1 1 1	t I	I I I	I I I	I I		I I I	I (f .	I 1	6251 6278	100.0	116 97 27	0.7 0.6 0.2	15362 15966 16031	94.2 97.9 98.3	506 603 65	3.1 3.7 0.4	12916 13015 13069	81 99 55	-
•	6~NOL 7-NOL	-90 I -90 I -90 I	I I	1 1]] 1	t	I I I	I I	1 1 1		I I I	I I	Į	I 1	6278 6278 6278	100.0	-	:	16063 16161 16308	98.5 99.1 100.0	33 98 147	0.2 0.6 0.9	13150 13183 13210	40 33 27	٠.
		1-	III	II-	I	I	·II	-11-	I	I	 -	1	I		LE	CEND :	* PLAN	NED PRO	CRESS						

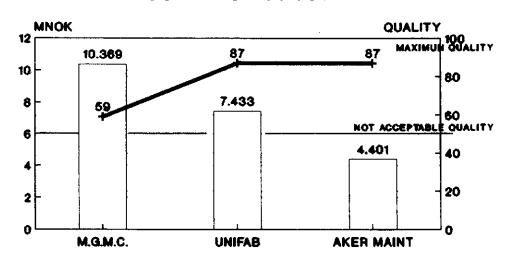
	M.G.M.G.M.	M.C.		FAB HOURS	! AKER I	MAINT. !	
LUMP SUM ! EST.REIMB.!	2,503 8,136	6.489 21.889	1,623 5,811	5.490 11.805	1,566 2,886	5.812 ! 11.037 !	
TOTAL	10,639	28.378	7.433	17.295	4,452	16.849	į

AFTER ADJUSTMENT:

7,213

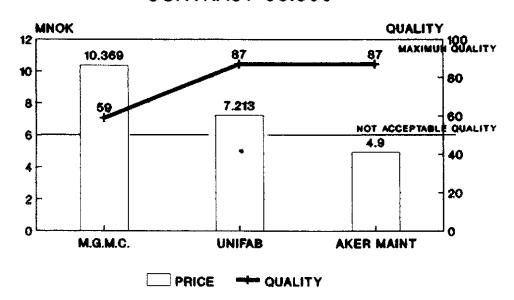
4,900

CDP1 DECOMMISSIONING-OFFSHORE WORKS TENDER EVALUATION CONTRACT 90.066



TENDERS AS RECIEVED

CDP1 DECOMMISSIONING-OFFSHORE WORKS TENDER EVALUATION CONTRACT 90.066

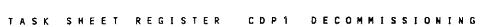


ADJUSTMENT AFTER CLARIFICATION MEETING

			•	0
TASK SHEET	C D P 1	DECOMMISSIONING	REGISTER	DATE:

		 ,					PURPURE					
!	!		CVCTEN			DI ESTIMATED						LIPROD.
! TASK !	10.!	KEY.!	5151EM 1		: MANHOUKS ! EAN	! MANHOURS ! AKER		I WEEK: 45			!	!est/
: 1		!	: 		! EAN	! MAEK :	: 	: WCEK: 47	! COMPL.	! 	! • • • • •	!exp
: ! 10 MO	1 1	1 1	PIPELINES/RISERS !	PIGGING OF SEALINE 26"-P-1012 TP1/CDP1	200	1 0	i	100	. 0	i PD	! R	! 0.0
! 10 MO	02 1	1 !	PIPELINES/RISERS	PIGGING OF SEALINE 26"-P-1017 TP1/CDP1	200	1 0	I	100	į 0	1 PD	i R	1 0.0
! 10 MO)3 į	1 !	PIPELINES/RISERS	BLINDING OF SEALINE 26"-P-1012 CDP1	180	! 34	92,	100	1 0	! AMS	f L	! 0.4
10 MO	04 !	1 !	PIPELINES/RISERS 1	BLINDING OF SEALINE 26"-P-1017 COP1	180	! 34	. 67	100	0 1	I AMS	1 L	1 0.5
! 10 MO	05 !	1!	PIPELINES/RISERS !	LEAK TESTING OF N2 FILLED SEALINE 1012	60	! 23	! 21	100	1 0	! AMS	! L	! 1.1
! 10 MO!	06!	1 !	PIPELINES/RISER\$	LEAK TESTING OF N2 FILLED SEALINE 1017	60	1 23	22	100	. 0	I AMS	١٤	! 1.1
! 10 PO	07 !	1 !	PIPELINES/RISERS !	CORROSION PROTECTION /ANODES CC	300	1 50 !	! 8	100	1 0	! AMS	! R	1 6.3
į.	ļ	1	!			-1!			į	!	ŧ	1
1	ŀ	1	!	PIPELINE/RISERS SUM:	1,180	! 164 !	210	100	1 0	ļ	1	1 0.8
į	Į.	ļ	!		†	1	l	l	!	!	į	1
! 20 MO	01 !	1 !	DRILLING EQUIPMENT !	REMOVE 4 WINCHES ON DRILL FLOOR	50	1 44 !	57	100	ŧ 0	! AMS	! L	1 0.8
! 20 MO	02 !	1 !	DRILLING EQUIPMENT !	REMOVE PART OF DIESEL ENGINES	800	! 205 !	97	100	1 0	! AMS	! L	1 2.1
! 20 so	03!	1 !	DRILLING EQUIPMENT !	REMOVE DERRICK & SUBSTRUCTURES	2,000	1 1300	1112	100	į 0	! AMS	! L	! 1.2
! 20 MO	04 !	1 !	DRILLING EQUIPMENT !	REMOVE DRILLING EQUIPT INSIDE DERRICK	700	! 0 !	. 0	100	1 0	! DCD	1 L	! 0.0
1 20 MO	05 !	1 !	DRILLING EQUIPMENT	DRAINING OF HYDRAULIC SYSTEM DERRICK	60	1 0 1	1 0	100	1 0	I DCD	! R	1 0.0
! 20 MO	06 f	1 !	DRILLING EQUIPMENT 1	REMOVAL OF INDUSTRIAL PUMPS (SUBSTRUCTURE)	30	1 0	i 0	100	1 0	I DCD	! L	1 0.0
! 20 MO	07 !	1 !	DRILLING EQUIPMENT	SEE VARIATION ORDER NO.1		1	!	l	!	! AMS	!	į.
į.	1	!	I		!	1	1	!	Į.	ţ	1	1
!	ļ	į.	!		!	1 !	!	l	Į	1	l	!
!	į	1	H			-!			1	ŧ	!	ļ
1	į	Į.	1	DRILLING EQUIPMENT SUM:	3,640	1,549	1,266	100	1 0	ŧ	1	1 1.2
į	!	į	,		!	1	ı	1	1	ļ.	1	į
! 25 MO	91 !	1 !	PRODUCTION FACILITIES!	STEAM CLEAN VENT SYSTEM CDP1	350	! 150 !	! 97	! 100	! 0	! AMS	! R	! 1.5
1 25 PO	02 !	1 !	PRODUCTION FACILITIES!	BLINDING OF MAIN GAS TCP2	90	1 30	87.5	100	1 0	I AMS	! L	1 0.3
! 25 PO	03!	1 !	PRODUCTION FACILITIES!	BLINDING OF VENT SYSTEM DOWN STREAM M1-TP1	. 60	! 3	1 4	100	! 0	! AMS	1 L	! 0.8
! 25 PO	04 !	1 !	PRODUCTION FACILITIES!	BLINDING OF VENT SYSTEM DOWN STREAM M2-TP1	60	1 3	! 3	100	! 0	! AMS	1 L	! 1.2
! 25 MO	05 !	1 !		STEAMING OF MAIN GAS CDP1	350	į 0 l	1 0	100	! 0	! PD	! R	! 0.0
! 25 MO	06 !	1 i	PRODUCTION FACILITIES!	REMOVE DISC. INSIDE CHECK VALVE 26"-P-101 TP1	70	1 31	! 63	100	1 0	! AMS	LL	! 0.5
! 25 MO	07 !	1 !	PRODUCTION FACILITIES!	REMOVE DISC. INSIDE CHECK VALVE 26"-P-105 TP1	. 70	1 0	! 0	100	1 0	! PD	I L	! 0.0
! 25 PO	1 80	1 !	PRODUCTION FACILITIES!	BLINDING OF VENT SYSTEM TO LIVE SYST. TP1	30	! 8	! 8	100	1 0	! AMS	į L	! 1.0
! 25 MO	09 !	1 1	PRODUCTION FACILITIES!	STEAMING OF VENT SYSTEM TP1	! 40	! 25	! 58	! 100	! 0	1 AMS	! R	! 0.4
!	ļ	į	!		!	1	!	!	I	!	1	f

21-Nov-90 PAGE 1 0F-6



DATE: 21-Nov-90 PAGE 2 OF 6

				! ESTIMATE	estimated!	EXPENDED	1 %	 !	I RESP	·	/LI
TASK NO.!	=	SYSTEM I					PROGRESS		1	1	1
1		!			I AKER		I WEEK: 45		l	ı	ŀ
(••••	
25 MO10 !			STEAMING OF MAIN GAS TP1								! 1.0
25 MO11 F			STEAMING OF MAIN GAS TP1/TCP2		•		· · ·				1 0.7
25 PO12 I			(IIII)	30							! 12.0
! 25 MO13 I	1 1		STEAMING OF SAND SCRUBBERS/FILTERS CDP1	100							1 0.0
! 25 MO14 !			REMOVE 10 X 8" BALL VALVE	200							1 0.0
! 25 MO15 !		PRODUCTION FACILITIES		200							! 0.0
1 25 MO16 I	1 !	PRODUCTION FACILITIES	CLEANING OF JET FUEL SYSTEM	50				· · ·			! 1.6
j t	1	!			•		!		-	ŧ	ļ
1	!	!			•				•	!	
! F	1	!	PRODUCTION FACILITIES SUM:	•						Į.	! 1.0
!	ţ	!		!		_	•	•	-	ļ.	1
i 35 soo1 !	1 !		LOCKING OF ENTRANCE TO MODULES	260							! 1.5
! 35 SOO2 !	1 !		LOCKING OF ENTRANCE TO BREAKWATER	150							! 3.5
! 35 MOO4 I	1 !	SECONDARY STRUCTURE I	NEW LQ EVACUATION 2ND FLOOR GYM/HOSPITAL	80							1 0.7
! 35 MOO5 I	1 !	SECONDARY STRUCTURE	NEW LG EVAC 3RD FLOOR	60							9.0
! 35 MOO6 i	1.9	SECONDARY STRUCTURE	PM4 1RST FLOOR EVACUATION	80	1 17 1						8.0 !
! 35 MO07 !	1.1	SECONDARY STRUCTURE	PM4 2ND FLOOR EVACUATION	60			1 100	0 !	AMS	1 L	! 0.8
! 35 1008 !	1 1	SECONDARY STRUCTURE	REMOVE TELEPHONE SYSTEM	60	1 53 1	6	! 100 !	0 (AMS	! L	! 8.8
1 35 1009 1	1 1	SECONDARY STRUCTURE	REMOVE DATA LINK MODEMS	30	1 13 1	6	1 100	. 0 !	AMS	! L	! 2.2
! 3 5 1010 !	1 ±	SECONDARY STRUCTURE	REMOVE STENTOPHONE SYSTEM	30	1 32 !	4	100	. 0 :	AMS	1 L	1 8.0
! 35 1011 1	1.1	SECONDARY STRUCTURE	REMOVE SX100 EXCHANGE	60	1 44 1	6	! 100 !	. 0	AMS	LL	! 7.3
1 35 1012 !	1.1	SECONDARY STRUCTURE	DISMANTLE TY40 TELECOM EQUIPT	60	! 44 !	8	! 100 !	0 1	AMS	! L	! 5.5
1 35 1013 !	1.1	SECONDARY STRUCTURE	REMOVE EQUIPT FROM RADIO ROOM	160	! 66 1	22	I 100 I	0 1	AMS	I L	1 3.0
! 35 1014 !	1 #	SECONDARY STRUCTURE	REMOVE RADIOS/WALKIE TALKIES	40	1 14 1	7	i 100 !	0 1	AMS	I L	1 2.0
! 35 IO15 I	1 1	SECONDARY STRUCTURE	NEW RIG MODULE EVAC.1 F.R COF. SHOP/OFF.	50	18 !	12	i 100 i	. 0	AMS	! L	1 1.5
! 35 MO16 !	1.1	SECONDARY STRUCTURE	SAIPEM LQ EVACUATION 3RD FLR CABINS	40	1 22 !	17	100	0 !	AMS	1 L	1 1.3
1 35 MO17 I			SAIPEM LQ EVACUATION 2ND FLR CABINS	60	! 28 !	16	! 100	. 0	AMS	I L	1 1.8
1 35 MO18 I			SAIPEM LQ5 EVACUATION 1RST FLR CABINS	60	1 16 !	12	1 100	. 0	AMS	! L	! 1.3
1 35 MO19 !				40	ı 165 i	17	1 100	0	AMS	! R	1 9.7
! 35 MO20 I		·		1,000	! 1250 I	1222	I 100	0	AMS	! R	1 1.0
: 35 MO20 :				250		227.5	l 100	. 0	AMS	! R	1 0.4
! 35 SO22 !				250	200 !	554	100	. 0	AMS	! R	! 0.4
; 33 3022 !		APPOUNDING STRUCTURE									

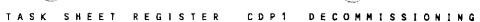




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TASK SHEET REGISTER CDP1 DECOMMISSIONING DATE: 21-Nov-90 PAGE 2 OF 6

!				! ESTIMATED	! ESTIMATED!	EXPENDED	! %	l	f RESP	! ! R	/L1
TASK NO.!			I DESCRIPTION	! MANHOURS	! MANHOURS !	MANHOURS	1 PROGRESS	!	ļ	1	ı
!	!	••••	!	! EAN	I AKER !		WEEK: 45	ļ 	!	1	!
25 MO10 !	1 !	PRODUCTION FACILITIES	I STEAMING OF MAIN GAS TP1	100	! 60 !	57.5	I 100	1 0	! AMS	l R	1 1.0
25 MO11 1	1 !	PRODUCTION FACILITIES	I STEAMING OF MAIN GAS TP1/TCP2	100	! 110 i	152.5	! 100	. 0	I AMS	1 R	1 0.3
25 PO12 !	1 !	PRODUCTION FACILITIES	REMOVAL OF INLINE ITEMS ON VENT SYST CDP1	1 30	1 84 !	7	! 100	, 0	! AMS	1.4	! 12.
25 MO13 !	1!	PRODUCTION FACILITIES	I STEAMING OF SAND SCRUBBERS/FILTERS COP1	1 100	l - <u>1</u>	-	I 100	1 0	PD	1 R	10
25 MO14 !	1 !	PRODUCTION FACILITIES	I REMOVE 10 X 8" BALL VALVE	200	! -!	-	l 100	. 0	I PD	(I,L)	! 0.
25 MO15 !	1 !	PRODUCTION FACILITIES	I REMOVE 24 FILTER UNIT	200	! - !	-	100	I 0	I PD	1 L	! 0.
25 MO16 !	1 !	PRODUCTION FACILITIES	! CLEANING OF JET FUEL SYSTEM	50	! 50 ł	31.5	! 100	0 1	! AMS	! R	11.
!	1		!	ļ.	! 1		Į.	!	į	ı	į
ļ.	!		!			•	·		ł	ļ	į
!	į		PRODUCTION FACILITIES SUM:	1,900	! 555 <u>!</u>	538	! 100	(0)	ı	ļ	! 1.
ļ.	į		1	l	!		I	ŀ	į	1	į.
35 SO01 !	1!	SECONDARY STRUCTURE	! LOCKING OF ENTRANCE TO MODULES	260	116 !	76	1 100	0	! AMS	! L	! 1.
35 SOO2 !	1 !	SECONDARY STRUCTURE	I LOCKING OF ENTRANCE TO BREAKWATER	150	42 !	12	100	ı 0	! AMS	1 L	! 3
35 MOO4 !	1 !	SECONDARY STRUCTURE	! NEW LQ EVACUATION 2ND FLOOR GYM/HOSPITAL	80	1 22 1	33	! 100	. 0	! AMS	1 L	1 0
35 MOO5 !	1 !	SECONDARY STRUCTURE	I NEW LQ EVAC 3RD FLOOR	60	! 22 I	27	100	. 0	AMS	LL	10
35 MOO6 !	1 !	SECONDARY STRUCTURE	! PM4 1RST FLOOR EVACUATION	80	l 17 i	22	100	0 1	! AMS	LL	! 0
35 MO07 !	1 !	SECONDARY STRUCTURE	1 PM4 2ND FLOOR EVACUATION	60	l 13 i	16	100	0 !	AMS	! L	1 0
35 1008 !	1 1	SECONDARY STRUCTURE	I REMOVE TELEPHONE SYSTEM	60	! 53 l	6	100	. 0	! AMS	! L	! 8
35 1009 1	1 !	SECONDARY STRUCTURE	! REMOVE DATA LINK MODEMS	30	13 !	6	100	. 0	! AMS	1 L	! 2
35 1010 4	1 ‡	SECONDARY STRUCTURE	! REMOVE STENTOPHONE SYSTEM	30	32 !	4	100	. 0	! AMS	! L	! 8
35 1011 !	1 !	SECONDARY STRUCTURE	I REMOVE SX100 EXCHANGE	60	! 44 !	6	100	. 0	! AMS	1 L	17
35 [012 !	1 !	SECONDARY STRUCTURE	! DISMANTLE TT40 TELECOM EQUIPT	60	! 44 !	8	100	. 0	! AMS	1 L	15
35 [013 !	1 !	SECONDARY STRUCTURE	! REMOVE EQUIPT FROM RADIO ROOM	160	66 1	22	100	. 0	! AMS	LL	1 3
35 1014 !	1 !	SECONDARY STRUCTURE	! REMOVE RADIOS/WALKIE TALKIES	40	14 £	7	100	0	! AMS	1.1	1 2
35 [015]	1 !	SECONDARY STRUCTURE	NEW RIG MODULE EVAC.1 FLR COF. SHOP/OFF.	50	! 18 i	12	100	0	I AMS	1 L	1 1
35 MO16 !	1 !	SECONDARY STRUCTURE	SAIPEM LQ EVACUATION 3RD FLR CABINS	40	22 !	17	100	. 0	! AMS	1 L	1 1
35 MO17 !	1 !	SECONDARY STRUCTURE	! SAIPEM LQ EVACUATION 2ND FLR CABINS	60	28 1	16	100	. 0	AMS	1 L	1 1
35 MO18 i	1 !	SECONDARY STRUCTURE	SAIPEM LOS EVACUATION 18ST FLR CABINS	60	16 1	12	100	0 1	! AMS	ł L	1 1
35 MO19 !	1 !	SECONDARY STRUCTURE	REMOVE FIRE FIGHTING EQUIPT HELIDECK	40	165 !	17	100	. 0	! AMS	1 R	19
35 MO20 !	1 !	SECONDARY STRUCTURE	! GENERAL CLEANING	1,000	1250 1	1222	100	0	AMS	! R	1 1
35 MO21 !	1 !	SECONDARY STRUCTURE	PAINTING/MARKING/LABELING ESCAPEWAY	250	85 !	227.5	100	0	I AMS	! R	1 0
35 SO22 !			INSTALL NEW "WALKWAY" BRIDGE	250	200 !	554	100		! AMS		





21-Nov-90 PAGE 3 OF 6

•	1	ţ			1	ļ	ESTIMATED	ESTIMATED	EXPENDED	! %	j.	! RES	P ! R	/L!
! TASI	K NO.!	REV.!	SYSTEM		! DESCRIPTION	į	MANHOURS I	MANHOURS I	MANHOURS	! PROGRESS	1	!	!	1
ļ	į	Į			!	1	EAN !	AKER !		! WEEK: 45	ļ	!	ŧ	ļ
ļ														
! 35	so25 !	1 !	SECONDARY	STRUCTURE	! REMOVE WINDWALLS/INSTALL NEW HANDRAILS	į	230 !	210 !	94	! 100	1 0	! AMS	Į Į	! 2.2
1 35 1	M026 !	1 !	SECONDARY	STRUCTURE	! REMOVE CORRODED PIPES & CABLETRAYS	į	600 !	950 1	946	! 100	! 0	I AMS	! R	1 1.0
! 35	S027 1	1 !	SECONDARY	STRUCTURE	! REMOVE FLARE BOOMS	ţ	400 !	156 1	102	100	1 0	F AMS	! L	1 1.5
! 35 1	MO28 !	1 !	SECONDARY	STRUCTURE	I INSTALL "NEW" WIND INDICATOR	1	40 !	26 !	13.5	I 100	1 0	! AMS	! R	I 1.9
! 35 :	so29 !	1 !	SECONDARY	STRUCTURE	I CLOSE-OFF ESCAPE LADDER	1	50 !	15 !	10	! 100	! 0	! AMS	! L	1 1.5
1 35	s037 1	1.1	SECONDARY	STRUCTURE	! REMOVE CONDUCTOR GUIDE FRAME	ı	400 !	55 !	2128.5	! 100	1 0	! AMS	! R	1 0.0
! 35	1038 !	1 !	SECONDARY	STRUCTURE	! REMOVE TERMINALS & PRINTERS FOR MIS	į	20 !	6 !	6	1 100	1 0	I AMS	! L	! 1.0
! 35	1040 !	1 !	SECONDARY	STRUCTURE	1 DISCONNECT FIRE DETECTION EQUIPT	ţ	150 !	136 1	24	! 100	. 0	! AMS	l R	1 5.7
! 35	1041 !	1 !	SECONDARY	STRUCTURE	1 DISONNECT PRODUCTION EQUIPMENT	ļ	340 !	165 (11	ŧ 100	! 0	! AMS	! R	!15.0
· 35	1042 !	1 1	SECONDARY	STRUCTURE	! DISCONNECT CONTROL ROOM EQUIPT	ļ	30 !	0 !	-	100	! 0	! PD	! R	! 0.0
! 35	1043 !	1 !	SECONDARY	STRUCTURE	! DISCONNECT MTI SYSTEM	!	80 t	60 !	59.5	100	! 0	! AMS	! R	! 1.0
! 35	1044 !	1 !	SECONDARY	STRUCTURE	! DISCONNECT GAS DETECTION SYSTEM	ļ	160 !	154 !	102	100	I 0	! AMS	! R	1.5
! 35	1045 !	1 !	SECONDARY	STRUCTURE	! REMOVE ENTERTAINMENT EQUIPT	ļ	30 !	26 !	11.5	! 100	l 0	! AMS	I L	1 2.3
! 35 1	MO46 !	1 ?	SECONDARY	STRUCTURE	F REMOVE OIL STORAGE TANK	ļ	40 !	40 I	10	100	1 0	! AMS	! L	! 4.0
1 35	1047 !	1 !	SECONDARY	STRUCTURE	! EQUIPT FOR EDUCATION TO BE DISMANTLED	!	60 !	22 1	11	100	! 0	! AMS	! L	! 2.0
1	1	į			I.	į	!	I		1	l	ļ	ļ.	1
į	į	į			I.	ı	1	I		l	ł	ŧ	ļ	!
!	1	ļ.			!	ļ.				!	!	i	Į.	!
ŧ	1	Į.			! TOTAL SECONDARY STRUCTURE	Į.	5,510 !	4,303 I	5,852	100	! 0	1	!	! 0.7
ŧ	1	ļ			1	ţ	1	. 1		!	1	ł	!	1
1 40 1	M00011	1.1	UTILITIES		I REMOVE FIREWATER PUMP G101A W/RISER	ţ	400 !	220 !	114	100.00	(0.00)	1 AMS	! L	1.9
1 40	MO0021	1.1	UTILITIES		! REMOVE FIREWATER PUMP G101B W/RISER	!	400 !	220 !	68.5	100.00	(0.00)	AMS	! L	1 3.2
! 40	M0003!	1 !	UTILITIES		! DISCONNECT AIR BOTTLES (MANRIDING WINCH)	Į	60 !	22	24	100.00	0.00	1 AMS	l L	1 0.9
! 40	MO004!	1.5	UTILITIES		! REMOVE SEAWATER PUMP GA 112 A/B/C	Į	400 !	290 I	41	100.00	(0.00)	1 AMS	! L	1.7.1
! 40	MO005!	1.1	UTILITIES		! REMOVE MK60 CRANE	ļ	3,500 !	1250 I	1773.5	100.00	(0.00)	! AMS	! L	! 0.7
! 40	M0006!	1 1	UTILITIES		! REMOVE NATIONAL CRANE	ļ	4,000 !	1650	475	100.00	(0.00)	! AMS	! L	! 3.5
1 40	M0007!	1 !	UTILITIES		! REMOVE INGERSOLL RAND AIR COMPRESSOR	ļ	30 !	80 I	21.5	100.00	0.00	LAMS	! L	1 3.7
£ 40	M0008!	1 !	UTILITIES		! PREPARE FOR STEAMING OF METH. SYSTEM	1	80 !	0 !	-	100.00	.00	! PD	! L	1 0.0
1 40	M0009!	1 !	UTILITIES		! STEAMING OF METH. SYSTEM	ļ	70 1	0 1	•	100.00	0.00	! PD	j R	! 0.0
i 40	MO0101	1.1	UTILITIES		! REMOVAL OF CORROSION INHIBITOR SKID	ı	40 !	0 1	•	100.00	0.00	I PD	! L	1 0.0



				- 					· • • • • • • • • • • • • • • • • • • •	••		
=	ŧ		1	I	ESTIMATED!	ESTIMATED!	EXPENDED	1 %	!	1 RESP	! R/	LI
ASK NO.1		SYSTEM	! DESCRIPTION					PROGRESS				-
!	•		! 	! 	EAN!	AKER!		! WEEK: 45		!	!	!
		UTILITIES	! PREPARATION OF STEAMING OF HP MUD SYSTEM	!	80 i	166 1	61	100.00	0.00	1 AMS	! L	! 2
0 M00121	1 1	UTILITIES	! STEAMING OF HP MUD SYSTEM	1	80 !	30 I	43	100.00	0.00	! AMS	I R	1 0
0 MO013!	1 !	UTILITIES	! PREPARATION FOR STEAMING OF GAS, OIL SYST	EM E	70 !	0 1	0 !	100.00	0.00	! AMS	I R	1 0
0 100141	1 1	UTILITIES	! REMOVE WELLHEAD HYDR. SYSTEM	1	1,200	760 1	338	100.00	0.00	I AMS	! L	1 2
0 MQ0151	1 !	UTILITIES	! DRAINAGE OF POTABLE WATER	ŀ	30 !	54 !	6 !	100.00	(0.00)	! AMS	l L	1.5
0 MO016!	1 !	UTILITIES	! PREP. FOR CLEANING OF LP-MUD SYSTEM	ļ	60 1	242 !	181	100.00	0.00	I AMS	! R	! 1
0 MO017!	1 !	UTILITIES	! FLUSHING OF LP-MUD SYSTEM	1	60 !	90 !	31 9	100.00	0.00	I AMS	1 R	1 2
0 MO018!	1 !	UTILITIES	! DRAINING OF STEAM SYSTEM	!	30 !	88 !	57.5	100.00	0.00	I AMS	! R	! 1
0 MO019!	1 !	UTILITIES	! VENT & DRAIN COMPR. AIR SYSTEM	1	30 !	55 !	40 1	100.00	0.00	1 AMS	! R	1
0 MO020!	1 1	UTILITIES	I DRAINING OF SEAWATER SYSTEM	1	60 1	66 !	36	100.00	0.00	! AMS	1 R	1 '
0 MO021!	1.1	UTILITIES	! DRAINING OF FIRE WATER SYSTEM	1	60 1	90 I	42 (100.00	0.00	I AMS	ł R	1.3
0 MO022!	1 !	UTILITIES	! DRAINING OF CLOSED DRAIN/SLOP SYSTEM	ŧ	30 1	55 !	8 !	100.00	0.00	I AMS	ł R	1.0
0 MO023!	1 !	UTILITIES	! STEAMING OF LP MUD SYSTEM RETURN	1	60 !	30 I	35 (100.00	0.00	1 AMS	! R	1 (
0 MO0241	1 1	UTILITIES	METH. WATER SYSTEM VENT TO AIR	1	30 <u>!</u>	0 !	- (100.00	0.00	1 EM	1 R	Į I
0 MO0251	1 1	UTILITIES	PORAINING OF SEAWATER TANK FB112	1	20 !	13 !	9 !	100.00	0.00	I AMS	1 R	ļ
0 MO026	1 1	UTILITIES	! STEAMING OF GAS OIL SYSTEM	•	150 !	0 !	0 !	100.00	0.00	I EM	! R	j (
0 MO027!	1.1	UTILITIES	I REMOVAL OF 2 DC GENERATORS	1	230 !	0 !	- (100.00	0.00	! EM	! L	! 1
0 M0028!	1 !	UTILITIES	I REMOVE 2 OF VIRAS COOLING PUMPS (PM4)	•	20 !	0 !	0 !	100.00	0.00	I AMS	į L	1.0
0 M00291	1 !	UTILITIES	! REMOVE SOFTWATER PUMPS GA 105 A/B	1	40 !	18 !	14.5	100.00	(0.00)	! AMS	! L	1
0 MO0301	1.1	UTILITIES	! REMOVE SEAWATER PUMPS GA 108 A/B	ļ	50 !	18 !	14.5	100.00	(0.00)	! AMS	ΙL	!
0 MO031!	1.1	UTILITIES	1 REMOVAL OF START AIR COMPRESSORS BA 182	1	70 1	27 1	11 1	100.00	(0.00)	I AMS	1 L	1 :
40 MO0321	1 !	UTILITIES	! DISONNECT PARTS OF THE BC COMPRESSORS	1	90 !	82 !	49	100.00	0.00	I AMS	1 L	+ '
0 MO0331	1 !	UTILITIES	! INSTALL NEW NAVIG. AIDS & OBSTR. LIGHTS	Į.	150 1	100 !	284	100.00	0.00	1 AMS	1 R	1 (
40 MO0341	1.1	UTILITIES	! REMOVE SEAWATER PUMPS GA 107A/B	I	40 !	18 !	14.5	100.00	(0.00)	! AMS	! L	ŀ
0 M00351	1.1	UTILITIES	! CRANE HANDLING	J	- 1	1155 !	710	100.00	(0.00)	1 AMS	i L	1
0 M00361	1 1	UTILITIES	! REMOVE UTILITY RISER (EXCEPT FW & SW)	I	300 I	155 !	96.5	100.00	0.00	I AMS	1 L	ļ
0 so037!	1 !	UTILITIES	! REMOVE DIVING MODULE	1	950 I	230 !	208	100.00	(0.00)	! AMS	1 L	į ·
0 soo38!	1 !	UTILITIES	F DRAINING OF CONTR. VALVE ACTUATORS	ŀ	- 1	6 !	6 !	100.00	0.00	! EM	I R	i.
!	1	•	1	ŀ	ţ	!	;	1	l	!	!	ŧ
!	1		<u>,</u>	1	1	!	!	ļ	!	ţ	!	1
Į.	!		ŀ	ļ						1	1	ļ - -
ļ			! TOTAL UTILITIES !	SUM: 1	12,970 !	7,280 !	4,807	100.00	(0.00)	I	ł	ı





0 ! EM ! R ! 1.0 !

TASK SHEET REGISTER CDP1 DECOMMISSIONING DATE: 21-Nov-90 PAGE 5 OF 6 1 ! ! ESTIMATED! ESTIMATED! EXPENDED ! % ! ! RESP ! R/L! ! TASK NO.! REV.! SYSTEM ! DESCRIPTION ! MANHOURS ! MANHOURS ! MANHOURS ! PROGRESS ! 1 1 1 ! EAN ! AKER ! ! WEEK: 45 ! 1 1 1 ! 45 IOOO1! 1 ! ELECTRICAL SYSTEM ! PASSIVATION OF CDP1 CONTROL PANEL 70 I 0! 93! 100 [0 ! EM | R ! 0.0 ! ! 45 EOOO2! 1 ! ELECTRICAL SYSTEM ! DISCONNECT CABLES FOR AIR COMPRESSOR 1 20 1 8 ! 0 (100 ! 0 | AMS ! L ! 0.0 ! 73 ! ! 45 IO003! 1 ! ELECTRICAL SYSTEM ! PASSIVATION OF TP1 CABINETS 80 | 0 1 100 ! 0 ! EM ! R ! 0.0 ! 0 ! 1 45 E0004! 1 ! ELECTRICAL SYSTEM ! DISCONNECT POWER SUPPLY CABLE 50 I 0 1 100 I 0 | EM | R | 0.0 | 30 ! 27 | 3! ! 45 E0005! 1 ! ELECTRICAL SYSTEM ! SHUT-OFF ALL CIRCUIT BREAKERS 100 ! 0 ! AMS ! L ! 9,0 ! ! 45 E0006! 1 ! ELECTRICAL SYSTEM ! DISCONNECT PUMPS GA 112 A/B/C SEAWATER 40 ! 10 ł 7 1 100 (0 | AMS | L | 1.4 | 1 45 E00071 1 ! ELECTRICAL SYSTEM ! DISCONNECT PUMPS GA 101 A/B FIREWATER 20 | 8 ! 57 1 100 (0 ! AMS ! L ! 0.1 ! ! 45 E0008! 1 ! ELECTRICAL SYSTEM ! REMOVAL OF CABLE FOR DIVING PLATORM 10 ! 13 ! 8.5 ! 100 1 0 ! AMS ! L ! 1.5 ! ! 45 E0009! 1 ! ELECTRICAL SYSTEM ! DISCONNECT ALL CABLES FOR DERRICK 60 ! 58 ! 37 ! 100 ! 0 | AMS | L | 1.6 | 80 ! 13.5 ! ! 45 E0010! 1 ! ELECTRICAL SYSTEM ! DISCONNECT CABLE FOR MK60 CRANE 90! 100 I 0 ! AMS ! L ! 5.9 ! I DISCONNECT ALL HALON BOTTLES 30 ! 3! ! 45 E0011! 1 ! ELECTRICAL SYSTEM 16! 100 I 0 ! AMS ! R ! 5.3 ! 5! ! 45 E0012! 1 ! ELECTRICAL SYSTEM ! REMOVAL OF ALL CABLES FOR DIVING MODULE 90 ! 25 ! 100 I 0 ! AMS ! R ! 5.0 ! ! 45 E0013! 1 ! ELECTRICAL SYSTEM ! DISCONNECT CABLES ON MASONELEIEN PUMPS 10 ! 0 ! - 1 100 ! 0 ! EM ! L ! 0.0 ! ! REMOVE & SEND ONSHORE ALL ACCUMULATOR CELLS ! 350 1 148 I 114 1 100 I 0 ! AMS ! L ! 1.3 ! 1 ! ELECTRICAL SYSTEM ! 45 E0014! 1 ! ELECTRICAL SYSTEM ! DISCONNECT CABLE FOR NATIONAL CRANE 20 1 0 ! 0 ! OTHER! L ! 0.0 ! ! 45 E0015! - 1 1 ! ELECTRICAL SYSTEM ! DISCONNECT 2 OF DC GENERATORS 30 ! 0 1 100 1 0 | DCD | L | 0.0 | 1 45 E00161 75 1 - 1 300 I 100 I ! 45 EO017! 1 ! ELECTRICAL SYSTEM ! REMOVAL OF DC CONVERTER SET 0 | AMS | R | 4.0 | I EM ! ! 0.0 ! ! CDP1 F&G/UTILITY AND MIMIC ı 1 ! 45 E0018! 1 ! ELECTRICAL SYSTEM 1 ł ! 45 E00191 1 ! ELECTRICAL SYSTEM ! TCP2 INTERFACE CABINET 1 - 1 ! EM ! ! 0.0 ! ! PASSIVATION OF TP1 CABINET 100 | 100 I ! EM ! ! 0.0 ! ! 45 E0020! 1 ! ELECTRICAL SYSTEM 1 ------1,000 ! 589 ! 100.00 I ELECTRICAL SYSTEM SUM: 1 693 ! 0 ! ! ! 1.2 ! ļ ŧ 1 1 ļ 1 - 1 !!!!! I REMOVE FIVE (5) LIFEBOATS 200 ! 66 I 21 | 100 I 0 | AMS | L | 3.1 | ! 50 MOOO1! 1 ! SAFETY EQUIPMENT 90.5 1 1 50 MO0021 1 ! SAFETY EQUIPMENT I REMOVE ALL FIRE FIGHTING EQUIPT 1 80 ! 196 | 100 ! 0 ! AMS ! L ! 2.2 ! 1 ! SAFETY EQUIPMENT ! REMOVE LIFESAVING EQUIPT 60 ! 78 I 29 ! 100 ! 0 ! AMS ! L ! 2.7 ! 1 50 MO0031 120 ! 66 1 35.5 ! 100 ! 1 ! SAFETY EQUIPMENT ! DISCONNECT ALL HALON BOTTLES 0 ! AMS ! R ! 1.9 ! ! 50 MO004! 105 I 9 I 100 ! 60 ! 0 ! AMS | L !11.7 ! ! 50 MOOOS! 1 ! SAFETY EQUIPMENT I NEW FIRE FIGHTING EQUIPT HELIDECK | -----| -----| -----| -----| -----| !!!! 520 ! 511 ! 185 ! 100.00 ! 0 ! ! ! 2.8 ! SAFETY EQUIPMENT SUM: ! ______ ! 55 GOOO1! 1 | SCAFFOLDING | SCAFFOLDING ! 5,000 ! 1662 ! 1662 | 100 I

ASK S	HEE	T REGISTER	CDP1 DECOMMISSIONING				DATE:	21-Nov-9	90	PAGE 6 OF 6				
!	!		1	· · · · · · · · · · · · · · · · · · ·	EST: MATED	1 ESTIMATED	I EXPENDED	! %	1	l RE	SP	! R,	/L!	
VARIATION!	REV.!	SYSTEM	! DESCRIPTION	!	MANHOURS	MANHOURS	MANHOURS	! PROGRESS	. 1	!		ļ	į	
ORDER NO!			1	!	EAN	! AKER	1	! WEEK: 45	1	!		!	!	
v.o.1 !			! REMOVAL REM. EQUIPT. IN DERRICK SUBSTR.	·	130	! 130	1 209	! 10	0 1	O ! AM	s	! R		0.6
V.O.2 !	1 !	SECONDARY STRUCTURE	! PREFAB/INST TANK SUPPT (35SF34, 35SO35)	ţ	450	ı 90	90	i 10	0 1	MA I O	s	1 L	į	1.0
V.O.3 !			PREFAB. NEW ACCESS BRIDGE (35SF23)	!	520		1170	! 10	0 !	MA 1 0	S	! L	ŧ	1.0
V.O.4 I		SECONDARY STRUCTURE	! PREP. FOR XTRA CUT BURNER BOOM	!		ı 32	17	! 10	0 !	MA 1 0	s	1 L	ţ	1.9
V.O.5 !		PIPELINES/RISERS	I REST SUPPORT ON 26" SEALINE	!		! 44	. 51	! 10	0 1	MA I O	S	! R	ļ	0.9
V.0.6 !		PRODUCTION FACILITIES	S! REMOVAL OF STUDBOLTS	!		. 32	. 33	! 10	0 1	O I AM	5	! L	ļ	1.0
V.O.7 !			NEW IDENTIFICATION PANELS (351048)	!		380	247	! 10	0 !	0 ! AM	s	ıι	Į	1.5
V.0.8 !		PIPELINES/RISERS	I INSTALL BOLTS 26" LINE TP1 & CDP1	ļ		! 40 !	1 6	! 10	0 I	O ! AM	S	! R	ļ	6.7
V.0.9 !		PIPELINES/RISERS	I REMOVAL OF FLOW TEES COP1	ļ		62	82	1 10	0 !	O ! AM	5	I L	ļ	0.8
V.O.10 !		SECONDARY STRUCTURE		!		! N/A	N/A	1 N/A	1	! AM	s	į .	- ļ	0,0
v.o.11 !			! EXTENDED SCOPE ON 35SO37	ļ		2000	1976	! 10	0 1	O ! AM	5		- !	1.0
V.O.12 !		ELECTRICAL SYSTEM	! TEMPORARY POWER SUPPLY	Į		! 340	333.5	1 10	0 I	Û I AM	s	! R	ţ	1.0
V.O.13 !			ACCESS WELD TANK SUPPT (HRS. IN VO15)	ŀ		10	10	f 10	0 1	O ! AM	S	! R	į	1.0
V.O.14 !		SECONDARY STRUCTURE	! REMOVAL OF SUSPENSION BEAMS MAIN DECK	ļ.		! 60	28	! 10	0 !	0 ! AM	S	1 R	ţ	2.1
V.O.15		SECONDARY STRUCTURE	! EXTRA STIFFENING PLATES/TANK SUPPORTS	!		! 105	75	! 10	0 1	O I AM	5	į R	1	1.4
V.0.16 I			! MARINE COORDINATOR	!		650	344	1 10	1 0	0 ! AM:	S	į R	•	1.9
V.O.17 !			! REMOVE ELEC./AIR COND	Į.		! 20	. 20	1 10	0 1	O ! AM	5	! R	ŧ	1.0
V.O.18 !			! COST DIFF. MECHANIC	ţ		l 840	344	! 10	0 !	O I AM	5	! R	1	2.4
V.O.19 !			PREFAB./INSTALL SURVEY POINT	!		1 72	9	1 10	0 !	O 1 AM	5	ΙL	ļ	8.0
V.O.20 !			! FLOODING OF CENTRAL CORE	1		! 32.5	. 8	1 10	0 !	O I AM	5	! R	ļ	4.1
V.0.21 !			! INSTR. INTERCONNECTION LINE	l		100	118	! 10	0 !	MA I O	-			
TOTAL VAR				l	0					0 1		1	ļ	1.2
PIPELINES				!	1,180				O !			!		0.8
DRILLING	EQUIPT	•		ļ	3,640	1,549	1,266	! 10	1 01	0 1		!	ŀ	1.2
PRODUCTIO	ON FAC.			ļ	1,900	! 555	538	1 10	1 01	(0)1		!	ı	1.0
SECONDARY	STRUC	Т		ţ	5,510	4,303	5,852	1 10	1 0	0 !		ļ	•	0.7
UTILITIES	3			1	12,970	7,280	4,807	1 10	10 E	(0)1		•	ŀ	1.5
ELECTRICA	AL SYST			!	1,000	! 693	1 589	! 10	00 !	0 1		ļ	į	1.2
SAFETY SY				ļ	520	511	185	! 10	1 00	0 1		!	ļ	2.8
SCAFFOLDI				ļ	5,000	1,662	1,662	! 10)O !	0 !		ļ	ļ	1.0
VARIATION		S			. 0	1 6,240	. 5,171	! 10	0 !	0 !		ļ.	1	1.2
STANDBY/S				į	0	1,630	1,521	! 10	00!	0 !		!		1.1
TOTAL ALL	SYSTE	MS:		- -	31,720	! 24,586	! 21,800	! 10	00 !	(0)!		!		1.1

CDP1 DECOMMISSIONING

WEEKLY PROGRESS REPORT

WEEK NO :..... DATE: TN OFFSHORE: CSI ATTN ONSHORE: KR BY: CC: BH/MCS

DAGE 1 OF O

-											PAGE 1 OF 9
TASK	NO.		DESCRIPTION	!!	% PROGRESS	! EXP.	HRS EEK	! ACCUM. ! MANHOURS	!R/L	! !RESP	! COMMENTS
10 M	001	! 1	PIG SEALINE 26"-P-1012 TP1/CDP1	!!	100	!		. ?	į -	! PD	PROGRESS PER W 30
10 M	002	! 1		!!	100	ļ.	:	. ?	ļ -	! PD	PROGRESS PER W 30
10 PC	003	! 1	BLINDING OF SEALINE 26"-P-1012 CDP	1!!	100	!	ļ	118	!L	! AMS!	PROGRESS PER W33 *
10 P	004	1 1	BLINDING OF SEALINE 26"-P-1017 CDP	111	100	!	1	118	!L	! AMS!	PROGRESS PER W33 *
10 M	005	1	LEAK TEST OF N2 FILLED SEALINE 101	2!!		!	1	!	!L	! AMS!	!
0 MC	006	1	LEAK TEST OF N2 FILLED SEALINE 101	7!!		!	1	! .	!L	! AMS!	!
10 PC	007	1 1	CHECKING OF ANODES CENTRAL CORE	11	100	!	,	8	!R	! AMS!	PROGRESS PER W30
	!	!		11		!	ļ		!	!!	l
====	====			====	=======				.!===	!====	
			REMOVE 4 WINCHES ON DRILL FLOOR								
			PEMOVE PART OF DIESEL ENGINES			_	_	= -			PROGRESS PER W37
			REMOVE DERRICK & SUBSTRUCTURES								PROGRESS PER W32
			REM. DRILLING EQUIPT INSIDE DERRIC		100	-			•	! DCD!	•
			DRAINING OF HYDRAULIC SYS. DERRICK		100	•	-		-	! DCD!	•
			REM.INDUSTRIAL PUMPS (SUBSTRUCTURE	•	100	•	-		•	! DCD! !!	•
			EQUIP IN DERRICK REMOVAL	!! -!!-		!	-				SEE VARIATION ORDER NO. 1
	!	!		!!		!	!		į	!!	

NB !!! CUT-OFF: THURSDAY 19.00 HRS

- * Tasks not included in Artemis
- * This have incl. V.O. req. hours who is for task 10M0003 26 hrs., 10M0004 51 hrs. PD = EAN PRODUCTION DEPT This hours on V.O. is only removal of flow tee's to get access for new blinds.

AMS= AKER MAINTENANCE STAV.

EM = EAN MAINTENANCE DEPT

WEEK	N O :38	DATE:	*************
		BY:	

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									. 1	PAGE 2 OF 9
25	MO01	! 1	! STEAM CLEAN VENT SYSTEM CDP1	!!	100	ļ	! 97	!R	! AM	s!
25	P002	! 2	! BLINDING OF MAIN GAS TCP2	!!	100	!	! 87.5	!L	. AM	S! PROGRESS PER W30
25	PO03	! 2	! BLIND VENT SYS DOWN TO STRM M1-TP1	!!	15	!	! 3	!L	! AM	S! PROGRESS PER W31
25	P004	! 2	! BLIND VENT SYS DOWN TO STRM M2-TP1	!!	15	!	! 3	!L	! AM	S! PROGRESS PER W31
25	MO05	! 1	! STEAMING OF MAIN GAS CDP1	!!	100]	1	! ?	!	! PD	1
25	MO06	! 1	! REM.DISC.IN CHCK VLVE 26"-P-101 TP1	!!	100	!!!	! 63	١L	! AM	S! PROGRESS PER W33, SEE VO NO D
25	M007	! 1	! REM.DISC.IN CHCK VLVE 26"-P-105 TP1	!!	100	!!!	! N/A	!L	! AM	S! COMMISSIONING TP1 DECOMM.
25	P008	. 2	! BLIND VENT SYS.TO LIVE SYS. TP1	!!	100	!!!	. 8	!L	! AM:	S! PROGRESS PER W30
25	MO09	! 1	STEAMING OF VENT SYSTEM TP1	!!	100	!	58	!R	! AM	S! PROGRESS PER W30
25	MO10	! 1	! STEAMING OF MAIN GAS TP1	!!	100 !		57.5	!R	! AM:	S! PROGRESS PER W30
25	MO11	! 1	! STEAMING OF MAIN GAS TP1/TCP2	!!	100 9		152.5	! R	! AM	S! COMPLETED 27.07.90
25	PO12	! 1	! REMOVE INLINE ITEMS-VENT SYST CDP1	!!	100	!	7	!L	! Ams	6!
25	мо13	! 1	STEAM SAND SCRUBBERS/FILTERS CDP1	Į į	100 !		. ?	i -	! PD	•
25	MO14	! 1	REMOVE 10 X 8" BALL VALVE	!!	100 !	!	?	į -	! PD	!
25	MO15 !	1	! REMOVE 24 FILTER UNIT	11	100 !	<u>.</u>	! ?	į -	! PD	4
25	MO16 !	1	CLEANING OF JET FUEL SYSTEM	!!	100	ļ	31.5	!R	! AMS	PROGRESS PER W32
	!	! !	·	!!	!	!		į	į	!
	<u>!</u>		 			!		-	! !	

NB !!! CUT-OFF: THURSDAY 19.00 HRS

* Tasks not included in Artemis

AMS= AKER MAINTENANCE STAV.

EM = EAN MAINTENANCE DEPT

PD = EAN PRODUCTION DEPT

CDP1 DECOMMISSIONING WEEKLY PROGRESS REPORT

WEEK	N O :38	DATE:	

BY:

PAGE 3 OF 9

						~~~~				PAGE 3 OF 9
TASK NO.	!REV!		! ! ! ! F	% !	EXP. HRS	! ACCUM. ! MANHOURS	!R/I	L!	! RESP!	COMMENTS
35 <b>\$0</b> 01	! 1 !	LOCKING OF ENTRANCE TO MODULES	!!	100		! 76	!L	ŧ	AMS!	PROGRESS PER W37
35 SO02	! 1 <del>!</del>	LOCKING OF ENTRANCE TO BREAKWATER	!!			!	IL	į	AMS!	
35 SF03	! 1 !	FABRICATION OF SKID FRAME MK60	!!	ļ	!	<u>!</u>	ļ -	į	AMS!	
35 MQ04	! 1 !	NEW LQ EVAC. 2ND FLR GYM/HOSPITAL	ļ ļ	90 !		! 33	١L	ļ	AMS!	PROGRESS PER W36
35 MO05	! 1 !	NEW LQ EVACUATION 3RD FLOOR	!!	100	2	! 27	!L	ļ	AMS!	PROGRESS PER W38
5 M006	<b>!</b> 1 !	PM4 1RST FLOOR EVACUATION	į	100 !	0	. 22	!L	ļ	AMS!	PROGRESS PER W38
35 MO07	<u> 1</u> 1	PM4 2ND FLOOR EVACUATION	!!	100 !	!	! 16	!L	ţ	AMS!	PROGRESS PER W35
35 1008	! 1 !	REMOVE TELEPHONE SYSTEM	!!	100 !	0		İL	•	AMS!	PROGRESS PER W38
35 1009	i 1 i	REMOVE DATA LINK MODEMS	!!	100	!	! 6	!L	į	AMS!	PROGRESS PER W37
35 1010	! 1 !	REMOVE STENTOPHONE SYSTEM	Į Į	100	0 !	! 4	!L	į	AMS!	PROGRESS PER W38
35 1011	<u> 1 !</u>	REMOVE SX100 EXCHANGE	!!	ļ	ļ	!	11	į	AMS!	
35 1012 !	! 1 !	DISMANTEL/REMOVE TT40 TELEM. EQUIPT	!!	100 !	!	! 8	í.	į	AMS!	PROGRESS PER W37
<b>3</b> 5 <b>IO13</b> !	! 1 !	REMOVE EQUIPT FROM RADIO ROOM	!!	95 !	!	. 22	!L	ļ	AMS!	PROGRESS PER W37
35 1014	! 1 !	REMOVE RADIOS/WALKIE TALKIES	!!	!	!	!	!L	į	AMS!	
35 1015 !	! 1 !	NEW RIG MOD EVAC 1ST FLR COFFEE/OFF	!!	!	!	)	!L	ļ	AMS!	
35 MO16 !	! 1 !	SAIPEM LQ EVACUATION 3RD FLR CABINS!	!!	ļ	!	!	!L	ļ	AMS!	
35 MO17 !	! 1 !	SAIPEM LQ EVACUATION 2ND FLR CABINS!	!!	100 !	16	! 16	١L	ţ	AMS!	PROGRESS PER W38
35 MO18 !	11!	SAIPEM LQ5 EVAC. 1RST FLR CABINS	į	100 !	12	12	!L	į	AMS!	PROGRESS PER W38
35 MO19 !	! 1 !	REMOVE FIREFIGHTING EQUIPT HELIDECK!	! !	!	!	!	!R	ļ	AMS!	
		GENERAL CLEANING	! <b>! -</b> ! <b>!</b>	! 32 !						PROGRESS PER W38

NB!!! CUT-OFF: THURSDAY 19.00 HRS

* Tasks not included in Artemis

AMS= AKER MAINTENANCE STAV.

EM = EAN MAINTENANCE DEPT

PD = EAN PRODUCTION DEPT

## CDP1 DECOMMISSIONING WEEKLY PROGRESS REPORT

WEEK	N O :38	DATE:	

BY: .....

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=	====	====	:===	==	=======================================	==:	======				===	===	=====	
!		K NO.			•			! EXP. HRS			-			
: !					! DESCRIPTION			!THIS WEEK						
	35	MO21	! 1	•	PAINTING/MARKING/LABELING ESCAPEWAY!	!!	Į.	!	ļ		!R	į	AMS!	1
ŧ	35	SO22	! 1	į	INSTALL NEW "WALKWAY" BRIDGE !	!!	100 9	!	į	554	!R	į	AMS!	PROGRESS PER W37 !
*į	35	SF24	į	ļ	FABR. OF SKID FRAME NAT. CRANE !	!!	!	!	!		١L	į	AMS!	!
•	35	SO25	! 1	ţ	REMOVE WINDWALLS/INSTALL HANDRAILS !	!!	100	!	ļ	94	İL	į	AMS!	PROGRESS PER W30
į	35	M026	! 1	ļ	REMOVE CORRODED PIPES & CABLE TRAYS!	ļ	50 !	202.5	į	362.5	!R	ļ	AMS!	PROGRESS PER W38
75.5	. 5	S027	! 1	ļ	REMOVE FLARE BOOMS !	!!	100 !	<u> </u>	ļ	102	!L	į	AMS!	PROGRESS PER W30
1	35	MO28	! 1	ŧ	INSTALL "NEW" WIND INDICATOR !	!!	100 !		ŀ	13.5	!R	ļ	AMS!	PROGRESS PER W37 !
į.	35	S029	! 1	ŀ	CLOSE-OFF ESCAPE LADDER !	ļ	100 !		ļ	10	!L	ļ	AMS!	PROGRESS PER W37 !
ļ.	35	s037	! 1	ļ	REMOVE CONDUCTOR GUIDE FRAME !	!!	100 !		į	2128.5	!R	į	AMS!	PROGRESS PER W36, SEE VO !
ļ	35	1038	! 1	ŧ	REMOVE TERMINALS & PRINTERS FOR MIS!	!!	100 !		ļ	6	i L	į	AMS!	PROGRESS PER W36 !
Į	<b>3</b> 5	1040	! 1	ţ	DISCONNECT FIRE DETECTION EQUIPT !	į	100 !		į	24	I R	į	AMS!	PROGRESS PER W37
!	35	1041	! 1	į	DISCONNECT PRODUCTION EQUIPT !	!	100 !		ļ	11	!R	į	AMS!	PROGRESS PER W29 - 80 % PD !
ļ	35	1042	! 1	į	DISCONNECT CONTROL ROOM EQUIPT !	•	100 !		!	?	!R	į	PD !	į
1	35	1043	! 1	į		į	70 !	36.5	į	36.5	!R	į	AMS!	PROGRESS PER W38
į	35	1044	! 1	!	DISCONNECT GAS DETECTION SYSTEM	į	100 !		ļ	102	!R	ļ	AMS!	PROGRESS PER W31 !
	35	1045	! 1	į	REMOVE ENTERTAINMENT EQUIPT !	į	!		ŀ		!L	į	AMS!	
ļ	<b>3</b> 5 I	MO46	! 1	į	REMOVE DIL STORAGE TANK !	ļ	100 !	10	ļ	10	!L	ŀ	AMS!	PROGRESS PER W38 !
					EUIPT FOR EDUCATION - DISMANTLED !									

NB !!! CUT-OFF: THURSDAY 19.00 HRS

* Tasks not included in Artemis

AMS= AKER MAINTENANCE STAV.

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### CDP1 DECOMMISSIONING

WEEKLY PROGRESS REPORT

BY: .....

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									PAGE 5 UF 9
TASI	! K NO.!	REV	DESCRIPTION	!! % !!PROGRESS	! EXP. HRS	! ACCUM. ! MANHOURS	! R/L	!!	COMMENTS
40 f	40001 <u>!</u>	1	REMOVE FIREWATER PUMP G101A W/RISER!	!! 100	! 114	! 114	!L	! AMS!	PROGRESS PER W38
40 N	40002!	1 !	REMOVE FIREWATER PUMP G101B W/RISER!	! 50	! 44.5	! 44.5	!L	! AMS!	PROGRESS PER W38
40 N	10003!	1 !	DISCONN.AIR BOTTLES(MANRIDING WINCH	! 100	!	! 24	!L	! AMS!	
40 N	10004 !	1 !	REMOVE SEAWATER PUMP GA 112 A/B/C !	! 30	9	! 15	!L	! AMS!	PROGRESS PER W32
40 N	10005!	1 !		!	!	ļ	!L	! AMS!	
0 1	10006	1 !	REMOVE NATIONAL CRANE !	!	!	<u>.</u>	!L	! AMS!	
40 M	10007!	1 !	REMOVE INGERSOLL RAND AIR COMPR. !	! 80	! 21.5	! 21.5	!L	! AMS!	PROGRESS PER W38
40 M	10008!	1 !	PREP FOR STEAMING OF METH SYST !	! 100	į	! ?	ţ -	! PD !	
40 M	10009!	1 !	STEAMING OF METHANOL SYSTEM !	! 100	į	! ?	· -	! PD !	
40 M	10010!	1 !	REMOVE CORROSION INHIBITOR SKID !	! 100	ţ	! ?	į -	! PD !	
40 M	10011!	1 !	PREP. OF STEAMING OF HP MUD SYSTEM !	! 100	ļ.	! 61	11,	! AMS!	WEEK 27
40 M	10012!	1 !	STEAMING OF HP MUD SYSTEM	! 100	į.	! 43	!R	! AMS!	WEEK 27
40 M	10013 !	1 !	PREP.FOR STEAMING OF GAS,OIL SYSTEM!	! 100	!	! 7	!R	. AMS!	PROGRESS PER W29
40 M	10014!	1 !	REMOVE WELLHEAD HYDR. SYSTEM:	100	į	! 338	!L	AMS!	PROGRESS PER W29
40 M	10015!	1 !	DRAINAGE OF POTABLE WATER !	ļ	į	!	il i	AMS	
40 M	10016	1 !	PREP. FOR CLEANING OF LP-MUD SYSTEM!	! 100	!	! 181	iR !	AMS!	PROGRESS PER W29
40 M	10017	<b>1</b> !	FLUSHING OF LP-MUD SYSTEM !	1 100	!	! 31	!R !	AMS!	PROGRESS PER W29
40 M	0018!	1 !	DRAINING OF STEAM SYSTEM	! 100	! 19	57.5	!R !	AMS!	PROGRESS PER W38
40 M	0019!	1 !	•	! 100	! 40	! 40	R !	. AMS!	PROGRESS PER W38
40 M	0020!	1 !		! 100	36	! 36	!R !	AMS!	PROGRESS PER W38

NB !!! CUT-OFF: THURSDAY 19.00 HRS

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## CDP1 DECOMMISSIONING WEEKLY PROGRESS REPORT

OCODA III DO LONING	zi scp
Y PROGRESS REPORT	

WEEK NO:38	. DATE:	:
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BY: .......

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	 !		!			 !!			! ACCUM.				! COMMENTS !
!		NSK NO.			DESCRIPTION				! MANHOURS				
	40	MO021	! 1	!	DRAINING OF FIRE WATER SYSTEM	!!	100	! 42	! 42	!R		! AMS	PROGRESS PER W38
ļ	40	M0022	!! 1	ł		!!	100	!	! 8	!R	ļ	AMS	PROGRESS PER W31
!	40	MO023	! 1	ļ		!!	100	ļ	! 35	!R	9	AMS:	ı ı
! !	40	MO024	! 1	ļ		!!	. 100	!	! ?	ļ.	- !	EM !	!
	40	MO025	! 1	ŀ	DRAINING OF SEAWATER TANK FB112	!!	100		! 9	!R	ļ	AMS	PROGRESS PER W38
50	. 0	MO026	! 1	ţ	STEAMING OF GAS,OIL SYSTEM	ļ ţ	10	!	! ?	!R	į	AMS	10% by EM, STEAMING NOT REQUIRE!
	40	MO027	! 1	į	REMOVAL OF 2 DC GENERATORS	!!	100	<u>!</u>	! ?	į	- (	EM !	ļ.
	40	MO028	! 1	ļ	REMOVE 2 VIRAS COOLING PUMPS (PM4)	ļ ļ	100	. 0	! 0	įΕ	9	AMS	IN CONN. WITH TASK 40MO32
; !	40	M0029	<u>!</u> 1	ļ	REMOVE SOFTWATER PUMPS GA 105 A/B	ļ ļ	100	14.5	! 14.5	!L	9	AMS	PROGRESS PER W38
; !	40	MO030	<u>!</u> 1	ļ	REMOVE SEAWATER PUMPS GA 108 A/B	!!	100	14.5	! 14.5	١L		AMS!	PROGRESS PER W38
!	40	M0031	! 1	į	REMOVE START AIR COMPRESSORS BA 1&2	! !	25	. 4	! 4	!L		AMS	PROGRESS PER W38
!	40	MO032	! 1	į	DISCONN.PARTS OF THE BC COMPRESSORS	ļ ļ	100	!	! 49	!L	!	AMS	PROGRESS PER W37
!	40	MO033	! 1	ļ	INSTALL NEW NAVIG.AIDS&OBSTR.LIGHTS	!!	!	!	!	!R		AMS	!
	40	MO034	! 1	ļ	REMOVE SEAWATER PUMPS GA 107A/B	į	100	14.5	14.5	!L	ļ	AMS	PROGRESS PER W38 !
<b>*</b> !	40	MO035	! 1	į	CRANE HANDLING (AMS CRANE DRIVER)	1	33	66	271	!R	į	AMS!	PROGRESS PER W38
	40	MO036	<u>!</u> 1	ļ	REMOVE UTILITY RISER (EXCEPT FW&SW)!	!!	40 !	37.5	37.5	١L	!	AMS!	PROGRESS PER W38
į	40	s0037	. 0	!	·	!!	100		208	İL	į	AMS!	PROGRESS PER W37 !
*!	40	M0038	! 1	!	DRAINING OF CONTROL VALVE ACTUATORS!	!!	100		6	!R	į	AMS!	PROGRESS W32 * !
!			į	į		Ē	!	!	!	į	ļ	į	!
!			į	i	! ! !	ţ	!	!	!	į	ļ	ļ	!

NB !!! CUT-OFF: THURSDAY 19.00 HRS

* Tasks not included in Artemis

* This task is done by others. Aker has only checked that all act. has been drained.

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## CDP1 DECOMMISSIONING WEEKLY PROGRESS REPORT

W	Е	E	ĸ	N	o	:38	DATE:		
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BY: .....

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COMMENTS !! % ! EXP. HRS ! ACCUM. !R/L! ! !!PROGRESS!THIS WEEK ! MANHOURS ! !RESP! 45 [0001] 2 ! PASSIVATION OF CDP1 CONTROL PANEL !! 93 ! - ! EM ! STAGE I COMPLETED 1 !!! ! ! ! PROGRESS PER W35 45 E0002! 1 ! DISONNECT CABLES FOR AIR COMPRESSOR!! 90 ! 45 E0004! 1 ! DISCONNECT POWER SUPPLY CALBE !! ! 45 E0005! 1 ! SHUT-OFF ALL CIRCUIT BREAKERS 11 Ţ !L ! AMS! 45 E0006! 1 ! DISCONN. PUMPS GA 112A/B/C SEAWATER!! ! 45 E0007! 1 ! DISCONN.PUMPS GA 101A/B/C FIREWATER!! 100 ! ! 45 E0008! 1 ! REMOVE CABLE FOR DIVING PLATFORM !! 100 ! ! 8,5 !L ! AMS! PROGRESS PER W35 ! 45 E0009! 1 ! DISCONNECT ALL CABLES FOR DERRICK !! 37 !L ! AMS! PER 05.07.90 ! 45 EOO10! 1 ! DISCONNECT CABLE FOR MK60 CRANE !! j ! !L ! AMS! ! 45 EOO11! 1 ! DISCONNECT ALL HALON BOTTLES 45 E0012! 1 ! REMOVE ALL CABLES FOR DIVING MODULE!! 5.0 !R ! AMS! PROGRESS PER W35 ! 45 E0013! 1 ! DISC CABLES ON MASONELEIEN PUMPS !! 100 ! ! 45 EO014! 1 ! REM./SEND ONSHORE ALL ACCUMUL.CELLS!! 1 ! 3 !L ! AMS! PROGRESS PER W38 5 E0015! 1 ! DISCONNECT CABLE FOR NATIONAL CRANE!! -11--*! 45 EO018! 1 ! CDP1 F&G/UTILITY & MIMIC 4 1 - ! EM ! | -----|---|--------*! 45 EOO19! 1 ! TCP2 INTERFACE CABINET ţ Ţ 

NB !!! CUT-OFF: THURSDAY 19.00 HRS

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DCD = DRILLING & COMPLETION DEPT

CDP1 DECOMMISSIONING
WEEKLY PROGRESS REPORT

WEEK NO:.....38...... DATE: :.....

							BY:		*************
									PAGE 8 OF 9
! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		!!	% PROGRESS	! EXP. HRS !THIS WEEK	! ACCUM.	s !	R/L	.! !RESF	! COMMENTS
! 50 MOOO1! 1 ! RE	EMOVE FIVE (5) LIFEBOATS	!!		!	ļ		! L	! AMS	<b>5!</b>
! 50 MOOO2! 1 ! RE	MOVE ALL FIREFIGHTING EQUIPT.	!!	30	! 19	!	9 !	L	! AMS	9 PROGRESS PER W38
! 50 MO003! 1 ! RE	EMOVE LIFESAVING EQUIPT.	11	ļ	<u> </u>	ļ.	ļ	L	! AMS	ii.
! 50 MO004! 1 ! DI	SCONNECT ALL HALON BOTTLES	!!	5		! N/	/Α !	R	! AMS	PROGRESS PER W36, WORK BY MAIN
! 50 M0005! 1 ! NE	W FIRE FIGHTING EQUIPT HELIDECK	!!	1	!	!	!	Ļ	! AMS	il
1 1 1		!!	!	İ	ŗ	į	-	ł	!
! ==============		====				:===		! ====	<b></b>
•									
	AFFOLDING HOURS								
1									
! ALL ! -!S	TANDBY HOURS	!!	N/A !	291	! 64	9 !	R	! AMS	! PER W38
; ======== <b>===</b>		====			========	===	===	=====	

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## CDP1 DECOMMISSIONING WEEKLY PROGRESS REPORT

EERLT PRUGRESS REPURI

I E	E K	N O	:38	DATE:	
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VARIATION ORDER REQUEST STATUS

BY: .....

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										PAGE 9 OF 9
 ! !		DESCRIPTION	!!	PROGRESS	THIS WEE	K	! MANHOURS	į	!RESP	! COMMENTS
	VO NO 01! 20 MO 07!	! EQUIPM. IN DERRICK. REMOVAL	!! !!	100	t !		! 20 <del>9</del> !	! R !	! AMS !	
	VO NO 02!		11 11	78	! !		! 265 !	! <b>L</b> !	!AMS	PROGRESS PER W36
	VO NO 03!	PREFAB. OF ACCESS BRIDGE	11	100	! .		! N/A	! -	!	PREFAB. ONLY
	VO NO 04!	PREP. FOR EXTRA CUT BURNER BOOM	11	100	!		! 17	! R	IAMS !	PROGRESS PER W30
à	/O NO 05!	PREFAB REST SUP. 26" SEALINE	1!	100	ŀ		! 51	! R	! AMS !	PROGRESS PER W31
	VO NO 06! !	REMOVAL OF STUDBOLTS	!! !!	100	! !	!	! 33 !	! !	! ! ! !	PROGRESS PER W33
	VO NO 07! !	NEW IDENTIFICATION PANELS	11	!	!	ļ	ļ	!		!
	VO NO 08! !		!!	100	! !	!	6	! !	!!!	PROGRESS PER W36
	VO NO 09! !	REMOVAL OF FLOWTEES/CDP1	!! !!	100	! !	!	! !	! !	!!	PROGRESS PER W36
	VO NO 10!!!	CANCELLATION OF TASK 351012	11 11	N/A !	! N/:	A !	! N/A !	! !	! ! ! !	t L
	VO NO 11! ! 35 SO 37! !	EXTENDED SCOPE ON 35SO37	111	NOT CONSI	DERED AS	A	VARIATION O	RDER !	, BUT	A REIMBURSABLE TASK.
	/O NO 12!!!	TEMPORARY POWER SUPPLY	!! !!	100 ! !		0 <u>!</u>	333.5	ļ Į	!!!	PROGRESS PER W38
	VO NO 13! !	ACCESS FOR WELDING/TANK SUPPORTS	11	100 !		!	N/A	- ! !	! ! ! !	HOURS INCLUDED IN VO 15. PROGRESS PER W36
,	VO NO 14! !		!!	100 !	:	3 ! !	28	! !	! ! ! !	
,	VO NO 15!!!	EXTRA STIFF. PLATES/TANKSUPPORTS	11	98 ! !		!	. 75	! !	! !	PROGRESS PER W36
١	VO NO 16!!!	MARINE COORDINATOR	,11	25 !	64	6 !	139	į	!!	PROGRESS PER W38
		REMOVE EL. FIRE CABINET								PROGRESS PER W38

NB !!! CUT-OFF: THURSDAY 19.00 HRS

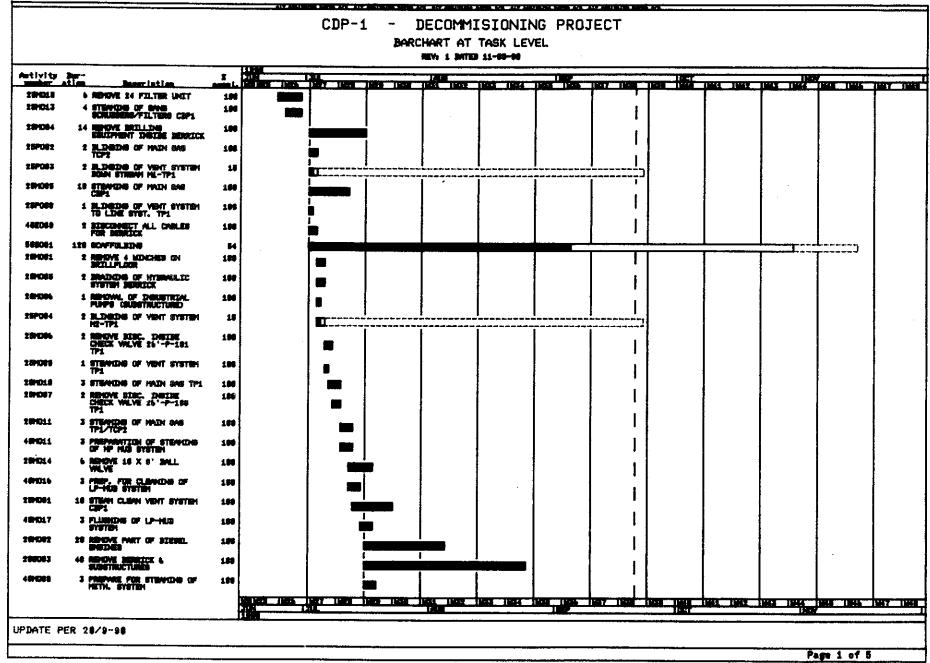
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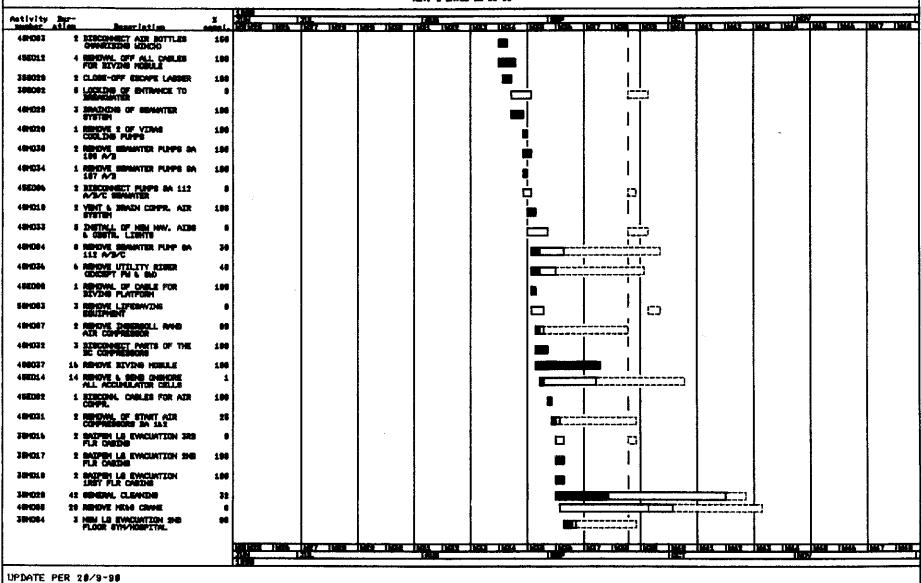


CDP-1 - DECOMMISIONING PROJECT
BARCHART AT TASK LEVEL
NEW: 1 BATTER 11-08-08

etivite	Der-										14.7		7.2-2	, ———	
otivity		المتعد			100		104	100	107 10	L.P		144	THE THE	1905	1447
44000.0	2 REPOWL OF CORROCTOR DRIESTOR OKES	188			<b>—</b>			1		1			1		1
484023	STRUCKS OF LP HAS	1.00						ł		1					1
40024	S METH, WHITER SYSTEM VENT TO AZR	186			-					ıΙ					
104061	19.4-1911 ILIVERS	5.00							1	:					
401012	3 STEMEN OF HP HIS STUTIEN	106							}	1					1
res-spes	3 PISSING OF SEALINE 26' 1817 TP1/CEP1	1,60			-				1	1 [			• -		1
197012	A REMOVAL OF TALDE TITHS ON VEHT SYST. CEP1	100							•	ıl					
198027	I RIPOVE FLARE BOOMS	188			-									ł	
181001	4 HURITY OF HINTE PAREL	48				E	<del></del>	L	L	1-4,					
352041	14 BINCOMMET PRODUCTION	1.00	1				T		T	ר־יִ'					
HONDES	3 STEWERS OF HETH, SYSTEM	186				1				Н			1		i
64063	S NAMED OF SEALTH	100								il					
<b>m</b> 1022	I DANDED OF CLOSES MADE VELOF SYSTEM	100	·					}		:					
810 <b>63</b>	4 HORSEY DITEMPACE CARDIET	96					<u> </u> 	! 							
BHD84	B NEDWING OF SEALINE 26'-P-1817 CRP1	1,00								<u>'  </u>					
FBF23	18 PREFAS. NON BRIDGE	186					ł	l		1 1			ł		1
00F34	18 PREFAG. BUPPORTS FOR MECK THAKE HD	198			}					ıl					
SED1.3	1 DISCONSECT CHELES ON HARDELETEN PURPS	100				į.			-	.					
<b>8H</b> 014	20 MOGNE HELLHEAD HYDR. System	100													
<b>8</b> 4048	1 USAK TESTING OF M2 FILLED SEALINE 1012	•				0				5					
	1 LBAK TENTONS OF ME FILLED SOULDE 1817	•				0				ם	l				
<b>8</b> P087	# CORRORION PROTECTION IN 3-TUBE	198								1					
<b>8104</b> 7	4 STEWART & SECURIZON	188								1					1
<b>64022</b>	E INMINET HEN AMPROMA.	188													
50038	7 INSTALL THEK SUPPORTS	180				ĺ				'			Ī	1	
20025	REMOVE MEDIEMALLE DISTRILL	196								l					
<b>5803</b> 7	STREET CONSUCTOR SUITE	100								ıΙ					
										Ш					
				7 118		I A S	1103 1103	130	1147 114	18		144	1947 1944	144	17

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CDP-1 - DECOMMISIONING PROJECT
BARCHART AT TASK LEVEL
REW 1 MATER 11-88-80



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# CDP-1 - DECOMMISIONING PROJECT BARCHART AT TASK LEVEL NEW 1 BATTER 11-00-00

luite le	T+		FC REAL		 183					I DET			<i>y</i>	
ivity De				1 1100	180	100		127 120		-		183 184		1917
814005 18-006	1 HM LA EVAC 3RS FLOOR	100			1			_	¹ ∦	1			1	
	3 PM 1RET FLOOR EVACUATION	100						B <b>i</b>	l <b>[</b>	1				
30007	1 PH 200 FLOOR EVACUATION	100			1			1'	<u>'</u>				1	
361043	4 BESCHOOLT HIE SYSTEM	78			ĺ	1		4	7					
351045	I REMOVE ENTERTIALINAMIT SOUTPHENT	•						1 :	E3			1		
404021	3 SEADON OF FIRE MATER STRING	190				]			!	ļ				
184050	S INSTALL HOW, MIND	100					=	•						
352000	2 REHOVE TELEPHONE SYSTEM	180			1		1		1 l			1	1	1
404015	2 MADINGE OF POTABLE WATER	•					"	<b>j</b> !						
381042	2 STECONECT CONTROL ROOM ENUTYMENT	1.00												
40002	STOCKE FIRSHITER PURP STOCKE W/RIGHT	95												
486007	1 BISCHORET PUPE ON 181	188							1			1		
352000	1 REMOVE SATIA LIDER HORSENS	100						•	.	- 1				
401001	S REMOVE FIREMATER FLAP SIGNA NATIONER	100				1	ł		1					
401020	1 REMOVE SOFT MATER PURPS ON 100 A/3	100						3						1
361018	1 REPORT STENTOPHONE	196					1		ı			Î		
361011	2 REPOYE SIXLES EXCHANGE	•					1		티	Į				1
381012	2 BINGSTRY RELIEFSORT	199							ı İ					
45E01.0	4 SISCONNECT CABLE FOR HIGH CHANE	•			ŀ				:					
381013	S REMOVE SOUTHWAIT FROM NASID ROOM	16					i		<u>F</u> il					<b>i</b>
194035	16 REMOVE CORROBED PIPES & CHILLETINATS	84		į						_				
E#1005	3 New FIRE FIGHTING CONTRACT HOLIDECK	•				1						-		
3 <b>8</b> 9046	2 REMOVE DIL STORAGE TIME	180			1				.			1	ł	Ì
444013	OF SMA, CIT. STREET	198			1				<b>i</b>					
381019	2 REMOVE FINE FINITING ENLIPHONT HELINGER	•						[						
884082	S REPORT ALL FIRE FIRHTING SELIPHENT	34						1						
383014	1 REMOVE RANGIOS/WALKIE TALKIES	•												
382018	2 NOW RES HOUSE EVAC. 5 FLR COF. SHOP/OFF	•											] }	
				107 100	1191 1191	Hera Data	100	107 110			HIS THEY	1994	MAK THAN	1947
			3.8									<del></del>		
PDATE PE	R 20/9-90													
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# CDP-1 - DECOMMISIONING PROJECT BARCHART AT TASK LEVEL

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Personnel movements due to CDP1 closure

18 May, 1990

Frigg Field Manager

P.S. Endresen

N. Gamgit, L. Aga, E. Vollaire, E. Hjelde) J.T. Langøen, A.Ø. Pedersen, E. Torjusen, PM DP2, OIM CDP1 Log. supervisor CC/HMP1, Maint.supt. CC/HMP1

Ref. No.: 311E-FO 89/ 079/PSE/giw

The planning of the abandonment of wells on CDP1 indicates that all wells will be abandoned by second half of July. The final decommissioning works and demanning should then be completed sometimes in the period Oct./Nov. this year.

The personnel movements outlined below may start from when the platform is gasfree - in line with the works ongoing at all times. The field manager and OIM in cooperation with the onshore departments, shall define the detailed manning requirements and when positions may be released from CDP1. The field manager will ensure the proper involvement of the VO's in the decision process. The actual dates for the movements can therefore not yet be defined.

Below are listed the movements of personnel which should be completed latest when CDP1 is demanned. A detailed planning will be prepared by the different departments in due course.

### LOGISTIC DEPARTMENT

## Marine coordinators

- J. Leitch will be transferred to CC as Marine coordinator.
- J.S. Gilmour, U. Meland and P. DeWangen will remain on DP2.

## Radio operators

On closure of CDP1, we will have a total of 12 positions available for 13 EAN employees. We will therefore launch the social plan actions in order to find acceptable solutions.

### MAINTENANCE DEPARTMENT

## Crane operators

- A. Mortensen has accepted early retirement. R.B. Rae will therefore be transferred to CC.
- K.F. Butler, A.J. Moseley and R. Orriss will remain on DP2.

## Instrument technicians

Out of the 6 EAN instrument technicians on CDP1/DP2 - three will be transferred to CC. The selection process has been launched. One position on DP2 will be covered by contractors.

## Electricians

Out of the 8 EAN electricians on CDP1/DP2, 2 will be transferred to HMP1. The selection process has been launched.

## Maint. supervisors

- A. Borge will be transferred to the telecom team on CC.

- G.J. Haug will be transferred to the mechanical team CC until his retirement in July 91.

- E. Østby will be transferred to the instrument team on CC. He will replace O.S. Larsen in July 92 when Larsen retires.

- K. Brathetland, C.E. Greaker and T. Zimmermann will remain on DP2.

## PRODUCTION DEPARTMENT

## OIM/prod.supervisors

- K.H. Leknesund will be transferred to CC and replace E.R. Johnsen when he retires.
- O.J. Torjusen will be further evaluated for possible temporary onshore functions.

- S. Sundby, P. Weber and L.M. Wathne remains on DP2.

## **Production operators**

Out of the 20 EAN production operators presently on CDP1/DP2, 3 will be transferred to CC and 2 will be transferred to HMP1. The remaining 15 will remain on DP2. The selection process for the transfers has been launched.

The number of contracted personnel from NH and Securitas will be reduced in line with above and the global manning needs.

P. S. Endresen

1 Fart June



NN

Your date

Our ref. (please quote).

Our date

311E-FO 90/ 094/PSE/giw Stavanger 22 May, 1990

In connection with the forthcoming closure of CDP1, you will be affected as outlined in the attached IM to the field manager.

This letter has been forwarded to you directly since your name has been mentioned in the attached IM. Details on schedules will be forwarded you in the normal manner as soon as dates for the transfer is available.

Regards,

P. S. Endresen Vice President FOD

Subject:	Date:
DECOMMISSIONING, MANNING AND OPERATIONAL PROCEDURES/EQUIPMENT RELATED TO SAFE OPERATION	June 26, 1990
Action:	From:
P. SOLBERG, J.T. LANGØEN, A.Ø. PEDERSEN	FFM
Infe.s. Endresen, E. Vollaire, H. Lye, S. EKELI, P. LAMONTRE, B. HEGRUM, T. BERGAN, O. KRAFT, OIM CDP1, PMDP2, PSI, MSI, CSI, SSI, HVO	Ref. No: 311E-FFM 90/ 063/GWS/th
	DECOMMISSIONING, MANNING AND OPERATIONAL PROCEDURES/EQUIPMENT RELATED TO SAFE OPERATION Action:  P. SOLBERG, J.T. LANGØEN, A.Ø. PEDERSEN Inf@.S. ENDRESEN, E. VOLLAIRE, H. LYE.

Attached you will find an evaluation of the equipment needed for safe operation on CDP1 during the different phases of the decommissioning work. Some items are marked for further evaluation. It shall also be mentioned that the lists may not be complete and evaluation regarding the different items should also be

Regarding the manning in the different phases this has been agreed upon between the HVO and FFM.

Further, it is important to note that it is our firm recommendation that the Living Quarter is kept operational as long as possible and that the planning regarding this is optimized.

The different departments are requested to check that their crews are trained.

G.W. Systak

done onshore.

## CDP1 DECOMMISSIONING

## **Emergency Organisation**

## Other Operational Procedures

The purpose of this note is to define the necessary adaptions having to be done to the Emergency Organization and to the other Operation Procedures during this new situation.

## Two periods must be considered:

- 1. Period starting from the day when CDP1 platform is declared "free of gas" and finishing when the Living Quarters are closed.
- 2. Period starting from the "closure of the Living Quarters" up to the end of the decommissioning operations.

## **Definitions:**

- "Free of gas": Means that the steaming of the process equipment is completed, the flammable liquids are removed (except the necessary quantity of diesel oil), the 2 x 26" sea lines are decompressed, cleaned and isolated on the TP1 and TCP2 ends.
- "Closure of Living Quarters": Means the L.Q. cannot be longer normally used due to the decommissioning of the utilities of safety functions. All quarters are locked, only temporary rooms for lunch, toilets and "bad weather" waiting accommodations are in service.

#### 1. FIRST PERIOD

1.1 Responsibility.

The overall responsible on the platform is the OIM reporting to the Frigg Field Manager.

- 1.2 Manning.
  - 1 OIM
  - 1 safety
  - 1 rig officer/radio operator
  - 1 marine co-ordinator/HLO
  - 1 crane driver
  - 1 nurse
  - 4 operators
  - 1 maint. supervisor
  - 1 sen. instrument technician
  - 2 electricians
  - 6 catering
  - 2 maint. technicians

TCD crew: 35 persons (approx.).

MSD diving crew: 10 persons during the weeks 30, 31, 32.

At this stage TCD should also supply a lifeboat crew i.e. 2 coxswains and 1 lifeboat commander. This crew will then take over as lifeboat crew in the second period.

## 1.3 Emergency Organization

During this period the manning of the permanent crew (see para. 1.2) allows the normal Emergency Organization to be applied except for the Fire Technical Team which is reduced from 9 to 8 persons.

Equipment necessary to be kept in this period are:

- fire water pumps
- fire hoses
- safety systems related to the Living Quarters
- radio
- 2 lifeboats, life-jackets and survival suits
- liferafts (no. to be studied)
- all the lifebuoys
- crane
- alarm system/public address.

## 1.4 Other procedures

All other procedures listed in the EAN Platform Management Manual and in Operational Procedure Manual are applicable.

Regarding the Work Permit Procedure, as far as the platform is free of gas the risk of fire is largely reduced, more attention shall be paid to other possible hazards such as:

- Risk of personnel falling due to temporary removed grating or to possible hole left in the deck after equipment removal.
- Risk of falling objects due to the large quantity of liftings/handlings and work ongoing on different levels.
- Possible risk linked to the simultaneous presence of divers (weeks 30-32) and other workers above on top side.
- Risk linked to the definitive removal of electrical equipment: A definitive electrical isolation shall be differentiated from a possible temporary isolation both on the certificate and physically in the electrical room.

## 2. SECOND PERIOD

## 2.1 Responsibility.

The overall responsible on the platform is the OIM reporting to the Frigg Field Manager.

## 2.2 Manning.

The following personnel will be shuttled every day by helicopter:

- -1 OIM (with VHF certificate) (Solely)
  -1 CSI Supervisor (arrivant 017)
- √ 1 Sen. electrician
  - -1 Nurse (if more than 1 helicopter, i.e. 9 persons) maturaled in .5 s V.
  - Contractor crew with the following trained personnel:
  - 2 Coxswains
  - 1 Lifeboat commander
  - 2 Smoke-divers

Max. no. of persons onboard: 18.

When 18 persons onboard, there might be a need for a steward/helper part of the day. Only day-shift allowed.

2.3 Emergency Procedure.

Fire extinguishers.

Alarm.

Muster point.

Radio communications with QP, VHF, supply boat, helicopter, etc.

Survival suits as long as more than 1 helicopter, when only 1 helicopters the personnel have their own.

Lifeboat (no. to be studied)

Liferaft (no. to be studied)

## 2.4 Other Procedures.

2.4.1 Shuttling Procedure

Same as for shuttling to FCS.

2.4.2 Work Permit Procedure

List of remaining tasks.

Associated precautions.

How handle the V.P procedure.

2.4.3 Bad Weather Waiting Accommodation

Reserve of food.

Bedding.

Room for meals and coffee and smoking area.

Fire detection.

Ventilation.

Alarm system.

Cleanliness.

Trash container.

Office facilities.

Etc.

### 3. CONCLUSIONS

The above statements under chapters, 1 and 2, regarding procedures cannot be considered complete. Further evaluation and checking of rules and regulations may be needed.

The HVO and the FFM have reviewed and agreed upon the core team manning as listed under 1.2 and 2.2. For the notice to the long term contracted personnel leaving CDP1, please take notice of the statement made in KAMU regarding 3 months notice time. Personnel will then have to work elsewhere on Frigg.

HVO wants to revert to the manning on the second period if heavy work has to be done. Changes will be agreed upon between HVO and FFM offshore.

Taryli Lodden T. Lodden

G.W. Syslak

## FRIGG OFFSHORE EMERGENCY ORG.

## **EMERGENCY TEAMS**

## CDP1 DECOMMISSIONING UP TO THE CLOSURE OF LIVING QUARTER.

## **Emergency Teams - CDP1**

## Fire & Technical Team

## Leader:

- Maintenance Supervisor
- Sen. Electrician
- Sen. Instr. Tech.
- Mechanic (when onboard)
- Operator (on duty)
- Operator (off duty)Operator (off duty)

## First aid/rescue team

## Hospital

## Leader:

- Medical Nurse
- Steward
- Search Team

## Search Team

## Leader:

- Camp Boss
- Steward
- Steward
- Steward (when onboard)
- Steward (when onboard)

## FRIGG OFFSHORE EMERGENCY ORG.

## **EMERGENCY TEAMS**

## CDP1 DECOMMISSIONING UP TO THE CLOSURE OF LIVING QUARTER.

## Coxswain

## Lifeboat no. 1

(Personnel with pre-allocated tasks in an emergency)

- Lifeboat commander: Electrician

- Coxswain: Crane Opr. - Coxswain:

Marine Coord.

Check if trained

## Lifeboat no. 2

(Personnel with pre-allocated tasks in an emergency)

- Lifeboat commander: Instr. Tech.

- Coxswain: Mechanic Check if trained Sen. Mechanic - Coxswain:

Note:

The max. number of personnel allowed onboard (visitors included) is the number of manned lifeboats x 42, i.e. 84.

## FRIGG OFFSHORE EMERGENCY ORG.

## **EMERGENCY TEAMS**

## CDP1 DECOMMISSIONING UP TO THE CLOSURE OF LIVING QUARTER.

## **Helicopter Operations**

Heliguard Marine Coordinator Fire-watch Crane Operator

## Personnel status

Station:

Rig Office/Radio Room

Rig Officer/Radio

Crane & basket operations

Marine Coordinator Crane Operator

Communication

Station:

Radio Room/Rig Office

Rig office/radio

**Control Room Operations** 

Operator (on duty)

Coordination

Station:

Control Room/Command Centre

Production Supervisor (OIM) Safety Supervisor

068/HD/rsl



Subject:	Date:
CDP1 DECOMMISSIONING - SECOND PERIOD  MANNING AND ORGANIZATION	July 12, 1990
Action:	From:
P. SOLHAUG/B. HEGRUM - TCD, P.S. ENDRESEN - FOD, S. EKELI - HSQA,	FFM H. DELYE
Info: SSI, HVO, LS, CSI, MSI, PSI, OIM CDP1, J.T. LANGØEN - POD, E. VOLLAIRE - FOD,	Ref. No: 311E FFM 90

My -> KK info.

Reference is made to memo 311E FFM 90/063/GWS/th where organizational matters during first phase of CDP1 decommissioning are described and agreed upon between Frigg field manager and HVO.

The purpose of this memo is to present guide-lines for the organization of the working environment during the second period of CDP1 decommissioning as foreseen by field manager. The guide-lines are attached to this memo.

A.Ø. PEDERSEN - MAINT, COORD. HVO.

Following actionsare proposed:

## 1. TCD

## 1.1 DEn.

- Contact with DEn.
- The situation being transitory we suggest that DEn is to be informed in writing about our plans. If necessary formal dispensation can be requested later from the regulations. This contact have to be taken as soon as possible due to delay for answer.

## 1.2 Work planning.

Prepare plans in order to;

- keep PM4 available as long as possible,

- remove and drain flammable liquid as soon as possible and before fire water is unavailable,
- remove life-boats, except the two last one at end of first period,
- provide water for washing and for toilets as long as possible (container),
- finalize the list of portable safety equipment with HSQA and provide them.

## 2. FOD

Check with DEn if it is needed and if necessary apply for;

- 2.1 OIM appointed for the following Safety supervisor I. Nilsen, A. Lundal, O. Østensen, R. Kristiansen and G. Lundal. These persons are already appointed to act in place of the OIM.
- 2.2 Appointment to act in place of OIM for following TCD rep M. Oram, S. Aas and L. Pettersen.
- 2.3 Finalize standing instructions for helicopter operations.

## 3. HSQA

Organize special course for advanced first aid training (equivalent to 1 day course given for FCS team) for the Safety supervisor mentioned under 2.1.

## 4. Field Manager

- Continue discussions in order to reach an agreement about the presence of a nurse under certain circumstances.
- Continue discussions about helicopter operations to evaluate if transportation of the core team alone in the first and last helicopter has to be planned.

H. Delye

# CDP1 DECOMMISSIONING SECOND PERIOD EMERGENCY ORGANIZATION AND SYSTEM OF WORK GUIDE LINES

## 1. GENERAL

1.1 Definition of the second period.

Refer to memo 311E FFM 90/063/GWS/th This period starts when the main living area are closed and the platform cannot be permanently manned anymore.

The remaining decommissioning work is performed using day shift transported from other Frigg field platforms.

1.2 Duration of second period.

According to TCD plans this period extend for 6 to 9 weeks starting in September 1990.

1.3 Status of the platform.

1.3.1 Living quarter.

- Saipem L.Q. and new village closed.

- PM4 available part of the time.

- Last emergency shelter. New rig module.

**1.3.2** Safety equipment.

- Permanent safety equipment under decommissioning for example neither water system available nor detection system working at the end of the period.

- Portable safety equipment kept as required.

1.4 Works to be performed.

Refer to TCD plans.

Mostly mechanical demolition (crane and pump casings removal). Electrical disconnections.

- 1.5 Potential Danger.
  - Gas: Absent.
  - Electricity: Present.
  - Flammable liquids: Reduced to minimum and removed at the end (gas oil).
  - Flammable material: Reduced (living quarter empty).
  - Accidents: Risks increased for falls and lifting accidents because of the demolition activities.

#### PRINCIPLE OF OPERATIONS 2.

During the second period of decommissioning the number of workers will be limited to the capacity of two shuttle helicopter trips, i.e. max 22 persons in exceptional cases and 18 persons on routine basis (9 is the normal helicopter capacity).

- The work will be only on day shift and people accommodated on other Frigg field platforms.
- The Emergency duties will be covered by a core team of 3 Elf personnel.

- The OIM and core team leader will be the Safety Supervisor.

#### 3. **EMERGENCY ORGANIZATION**

The organization is simplified to a maximum because the fire dangers are very much reduced and the danger of explosion due to hydrocarbons is nil.

It is based on the use of multiskill persons organized in a core team of Elf employees.

#### 3.1 Core team.

The core team consists of 3 persons:

- OIM: Safety supervisor.

- TCD supervisor as OIM replacement.

- Senior electrician (or electrician).

It is worth to mention that most of the time an additional Elf employee will be onboard and can be integrated in the core team; this is the crane driver.

3.2 Life-boats/life-rafts.

> Two life-boats (4 and 1) and 2 life-rafts to be kept onboard. The last days only the life-rafts will be available, the main evacuation mean being the helicopter.

- 3.3 Life boat crew.
  - Life-boat commander:

OIM/SSV.

- Coxswain:

Electrician.

TCD supervisor.

- Life jackets/Survival suits. 3.4
  - Life jackets to be kept close to each life-boat according to regulation.

- Survival suits (22) to be kept inside the main life-boat (LB 4).

#### 3.5 Fire fighting equipment

When fire water no more available, only portable equipment to be used. Number and location to be agreed upon with Safety department.

3.6 Smoke diving equipment.

2 sets to be kept onboard with spare bottles for use by OIM and electrician.

3.7 Fire fighting crew.

> No fire fighting crew, evacuation of the platform takes place if the portable extinguisher are inefficient, only possibility of smoke diving is left.

- 3.8 Communication.
  - Ship.
  - Helicopter.
  - OP.

At the very end using VHF portable sets.

- 3.9 Muster point.
  - Life boat.
  - Man in charge of head count: TCD supervisor.
- 3.10 Alarm signal.

During last days portable horn to be provided and placed at strategic points.

3.11 Muster drill.

Regular drill to be practised as required by law.

3.12 First aid.

First aid to be given by the OIM/SSV and more support can come from QP or DP2 in case of casualty.

3.13 Temporary hospital

Medical equipment and stretchers stored in Radio room.

3.14 Core team qualification.

	OIM	First aid	HLO	Coxswain	FiFi	VHF	Tactic
OIM/Safety supervisor TCD supervisor Electrician (Crane driver)	X	Х	x x	X (X)* X X	X X X	х	X

^{* ()} most of the TCD supervisor have coxswain course.

## 4. OPERATIONS

- 4.1 Helicopter.
  - Helicopter operations based on same principle as for FCS; direct view of CDP1 from QP Radio room.
  - OIM has HLO course.
  - Fire guard is the electrician.
  - TCD supervisor is the 3rd proximity person.

The core team is transported in the first helicopter to land on platform, and the last to leave A standing instruction for helicopter operations is to be prepared.

4.2 Crane operations.

As long as crane are in use, the crane driver is provided by EAN in order to take advantage of his qualifications related to emergency organization.

- 4.3 Personnel status.
  - Taken care of by OIM and QP Logistic supervisor.
  - Same principle as for NEF.
- 4.4 Communication.
  - Use of VHF by OIM; office in radio room. Other communications are through portable sets.
  - Normal channels to be used.
- 4.5 Living quarter/emergency shelter.
  - New rig module will only be kept open at last.
  - Camp beds for 22 to be stored onboard with toilet articles.
  - Toilet and a wash basin must be kept operational as long as practical possible.
  - At the very last time fresh water to be supplied by container.
  - Emergency food stock must be kept onboard.
- 4.6 Catering.

Food transported from QP for lunch.

4.7 House keeping.

Taken care of by one contractor employee.

- 4.8 Work permit system.
  - The normal form will be used, but the procedure will be simplified.
  - Only work permit for main and electrical work;
    - . signature by OIM for both Safety and OIM,
  - . signature by operational responsible delegated to TCD supervisor.
- 4.9 Electrical isolation certificate.
  - The present philosophy must be kept enforced. Permanent isolation must be notified on the E.I. certificate and physically labelled on site.

The second qualified electrician is to be provided by contractors.

## 5. POINTS WHERE DECISION IS STILL PENDING

The following points have not been agreed upon between FFM and HVO:

- 5.1 The necessity to have a nurse onboard if more than 9 persons are onboard as stated in the memo 311E FFM 90/063/GWS/th.
- 5.2 The transportation of the core team alone in the first and last helicopter, other workers being transported in intermediate flights.

Further discussions will take place.

H. Delve

Frigg field manager

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- Titur
William .

Subject:
CDP1 DECOMMISSIONING - SECOND PERIOD
ANNING AND ORGANIZATION

Date: July 1

July 16, 1990

Action:

FRIGG FIELD MANAGER

From:

FFM H. DELYE

IM

Info: P.S. ENDRESEN/E. VOLLAIRE - FOD, OIM CDP1, P. SOLHAUG/B. HEGRUM - TCD, COORD. HVO, H. LYE/S. EKELI - HSQA, SSI, HVO, LS, CSI.

Ref. No: 311E FFM 90 072/HD/rsl

18/7 by -> CR'info.

On 15.07.90, according to point 4 from memo on same subject ref. 311E FFM 90/068/HD/rsl a discussion took place between HVO and FFM.

## Following was agreed upon:

- 1. Emergency organization and system of work at CDP1 during second period of work is acceptable as described on guide-line attached to referenced document with following addition.
- 2. When more than 11 people are planned to be on board or when special dangerous operation are planned the need for the presence of a qualified nurse must be decided between FFM and HVO.
- 3. Helicopter transportation will take place with full load of helicopter for first and last helicopter as planned in point 4.1 of guide-lines.

H. Delye

H. Velund HVO

Encl. 4.2.5

		01. 11.2.0
	Subject: OIM DURING CDP1 DECOMMISSIONING	Date: August 8, 1990
	Action: P. SOLHAUG, B. HEGRUM, S. EKELI	From: FFM G.W. SYSLAK
IM	Info: SSV, SSI, LS, CSI, MSI, PSI, P.S. ENDRESEN, E. VOLLAIRE, J.T. LANGØEN, A.Ø. PEDERSEN, HVO.	Ref. No: 311E FFM 90 086/GWS/rsl

10/8 dy -> cc. KR info

Reference made to telecon. P.S. Endresen/G.W. Syslak 07.08.90.

The following has been decided upon:

The present OIM's will act as OIM for the decommissioning period and follow the crew to CDP1 if and when space available on the helicopter.

The OIM's will when stationed on QP have special responsibility to follow and monitor the work progress and safety on CDP1 and keep the FM informed.

The Safety Supervisor will act on behalf of the OIM and will always be in the core team for CDP1.

G.W. Syslak

	Subject: CDP1 decommissioning phase II. Emergency Organization	Date: August 21, 1990			
	Action: OIM CDP1	From: H. Delye FFM			
IM	Info: SSI, DP2-PM, SSV CDP1, CSI, HVO, P.S. Endresen, E. Vollaire, H. Lye, S. Ekeli TCD: Solhaug, Hegrum	Ref. No: 311E FFM 90/ 090/HD/th			

## **EMERGENCY ORGANIZATION**

The organization is simplified to a maximum because the fire dangers and the danger of explosion are very much reduced.

It is based on the use of multiskill persons organized in a core team of Elf employees.

## Core team.

The core team consists of 4 persons:

- OIM: Safety supervisor.

- TCD supervisor as OIM replacement.
- Senior electrician (or electrician).
- Nurse

It is worth to mention that most of the time an additional Elf employee: The Crane Driver will be onboard and can be a back up for the core team.

## Life-boats/life-rafts.

Two life-boats (4 and 1) and 2 life-rafts to be kept onboard. The last days only the life-rafts will be available, the main evacuation mean being the helicopter.

## Life boat crew.

- Life-boat commander:

OIM/SSV.

- Coxswain:

Electrician.

TCD supervisor.

## Life jackets/Survival suits.

- Life jackets to be kept close to each life-boat according to regulation.

- Survival suits (22) to be kept on platform.

## Fire fighting equipment

When fire water will no more be available, only portable equipment is to be used. Number and location of equipment are as described in revised safety plot plan and will be changed according to work progress.

## Smoke diving equipment.

2 sets to be kept next to rig office under the helideck with spare bottles for use by OIM and electrician.

## Fire fighting crew.

There is no fire fighting crew, evacuation of the platform takes place if the portable extinguishers are inefficient, only possibility of smoke diving is left.

## Communication.

- Ship.
- Helicopter.
- QP.

are taken care of by OIM and Nurse from radio room. Point to point telephone ex Seaway Condor will be installed.

At the very end VHF portable sets are used.

## Muster point.

- Main muster point is rig office
- Alternative muster point lifeboat No. 1.
- Person in charge of head count: TCD supervisor.

## Search Team.

No specialized search team is established. If search deemed necessary, TCD Supervisor and Contractor crew can be requested by OIM to do so.

## Alarm signal.

During last days when PA is disconnected portable horns to be provided and placed at strategic points.

## Muster drill.

Regular drill to be practised as required by law.

### First aid.

Medical care will be given by the Nurse. The OIM/SSV is the second medically trained persons (first aider).

## Temporary hospital

Medical equipment and stretchers will be stored in the Rig Office.

### Stretcher Team.

There is no stretcher team. Contractor personnel can be mobilized by nurse if necessary.

## Core team qualification.

	OIM	First aid	HLO	Coxswain	FiFi	VHF	Tactic
OIM/Safety supervisor TCD supervisor Electrician (Crane driver) Nurse	X	x x	x x	X (X)* X X	X X X	X	х

^{* ( )} most of the TCD supervisor have coxswain course.

H. Delye Frigg Field Manager

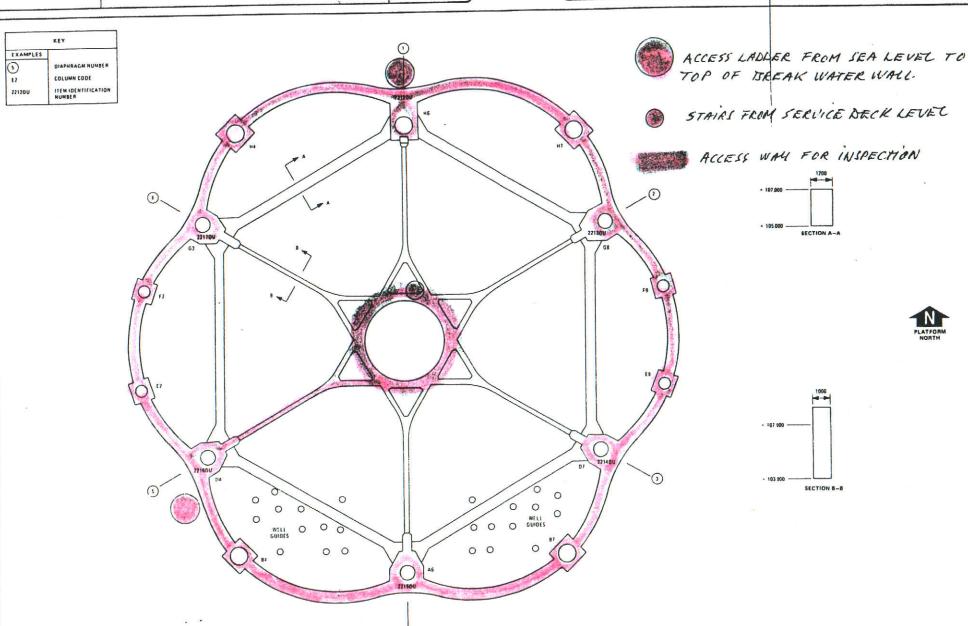
CDP1

CHAPTER 5 - STRUCTURES AND RISERS SECTION 2 - CONCRETE STRUCTURE

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## IN-SERVICE INSPECTION SYSTEM



SKETCH 1

FIGURE 6 PLAN AT + 108,000

Sketch

5.2.1

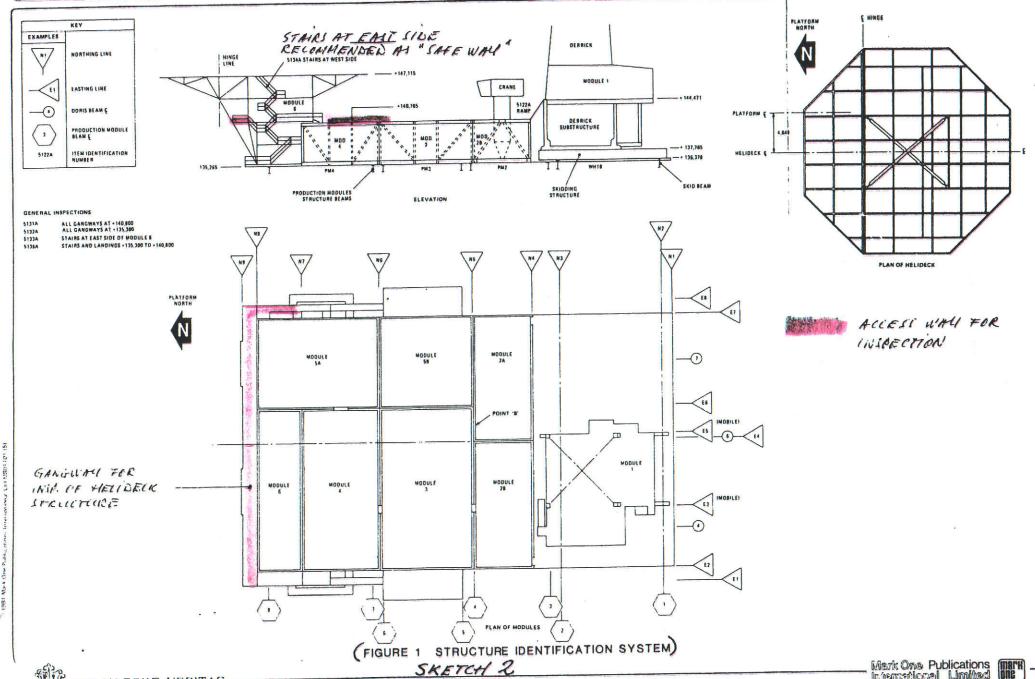
MODULES

CHAPTER 5 - STRUCTURES AND RISERS SECTION 5 - OTHER DECK STRUCTURES

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# IN-SERVICE INSPECTION SYSTEM



5.2 N

Sketch

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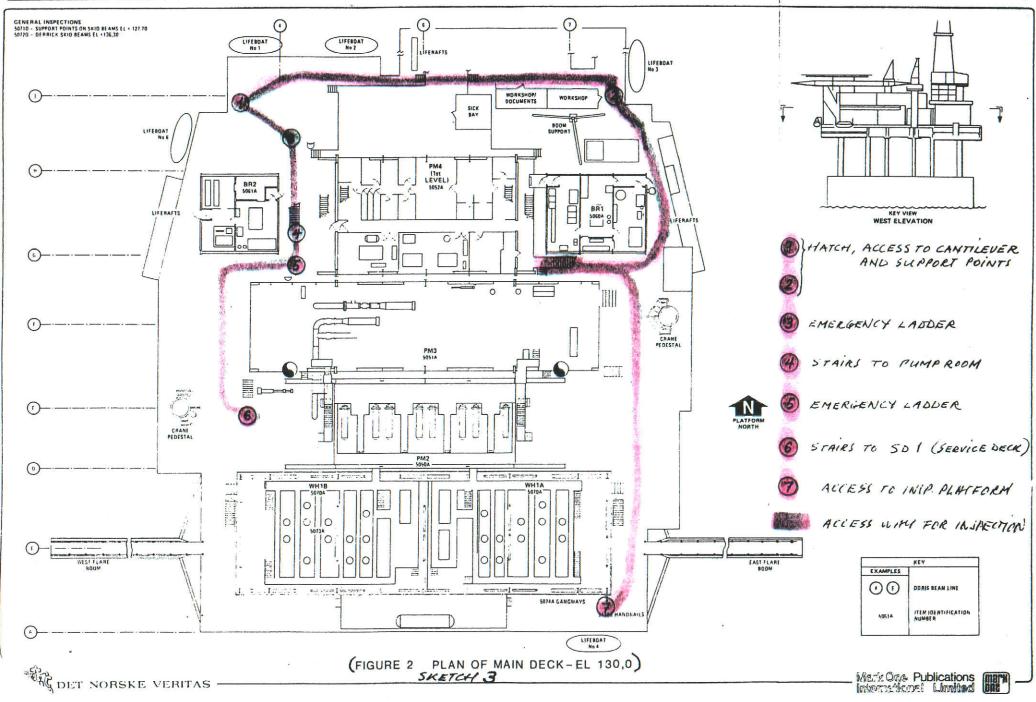
CHAPTER 5 - STRUCTURES AND RISERS

SECTION 5 - OTHER DECK STRUCTURES

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# IN-SERVICE INSPECTION SYSTEM



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Sketch 5.2.3

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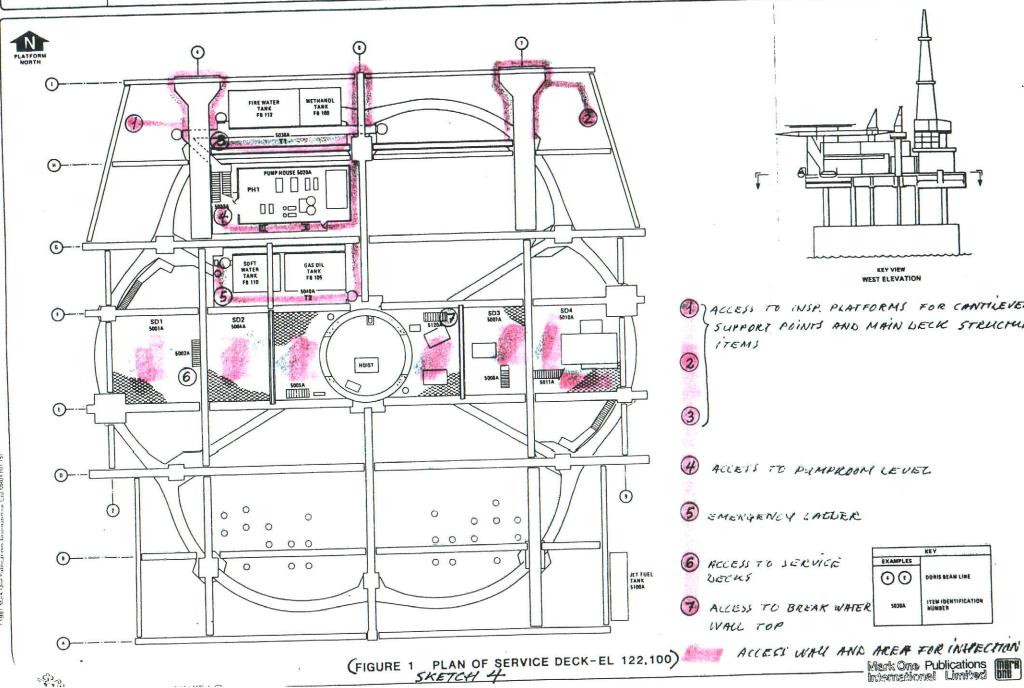
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IN-SERVICE INSPECTION SYSTEM

SECTION 5 - OTHER DECK STRUCTURES





KEY DORIS BEAM LINE ITEM IDENTIFICATION Sketch

5

2



CDP1 ABANDONED



BEFORE START OF DECOMMISSIONING



CDP1 ABANDONED



CDP1
LIFTING OF CONTAINERS BY HELICOPTER



FRIGG FIELD
AFTER CDP1 DECOMMISSIONING