

North West Hutton Decommissioning

6th February 2003

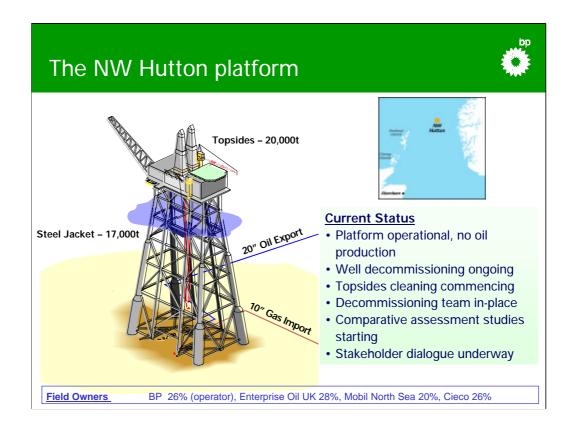


- •The first stakeholder consultation on North West Hutton decommissioning took place in Aberdeen on 6th February 2003.
- A full report of the meeting is available on this website.

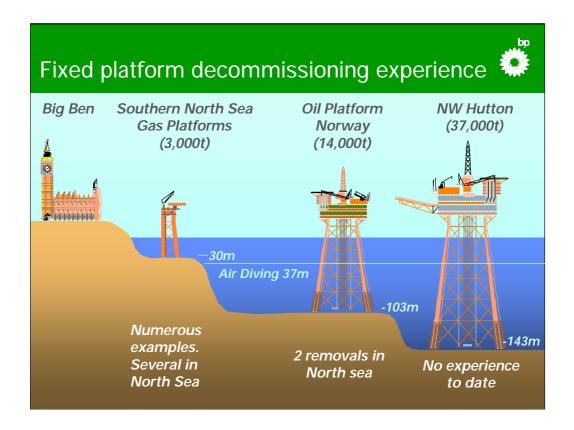
Agenda



- Introduction
 - What we hope to achieve today
- Decommissioning overview
 - North West Hutton status
- Comparative assessment studies
 - Detailed discussion
- · Stakeholder views
- Summary, future plans and wrap-up



- North West Hutton was discovered in 1975 and came into production in 1983.
- The field is 130km NE of the Shetland islands.



- Several smaller structures have already been removed from the Southern North Sea.
- North West Hutton will be the first fixed steel jacket installation of this size to be decommissioned.
- Note some large structures (eg gravity base and tension leg platform) have been removed but they were designed for this.

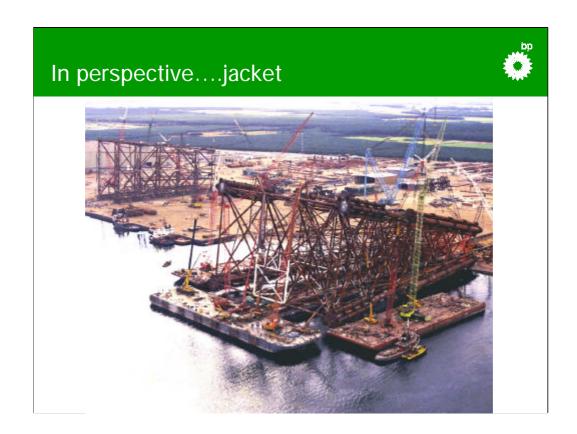
In perspective....topsides



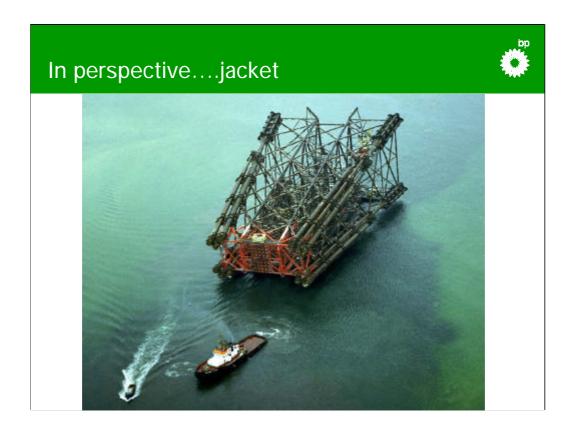


- Accommodation and support facilities for up to 210 personnel
- 2 Drilling rigs with 53 wells drilled from 40 well slots
- Power generation
- Water injection systems
- Capacity for 130,000 barrels per day of oil production
- Gas compression

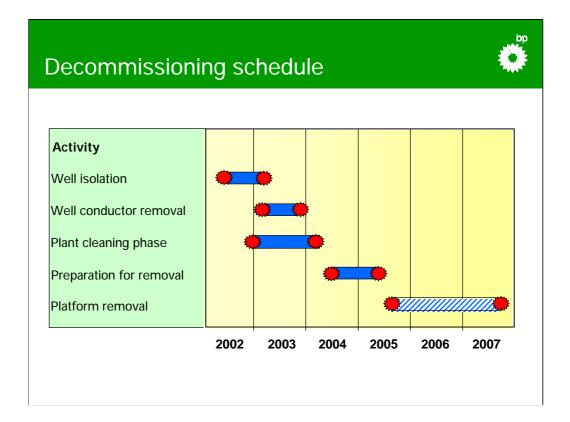
- Total topsides weight is 20,000 tonnes.
- The topsides is made up of 22 modules each weighing between 500 and 2,500 tonnes.



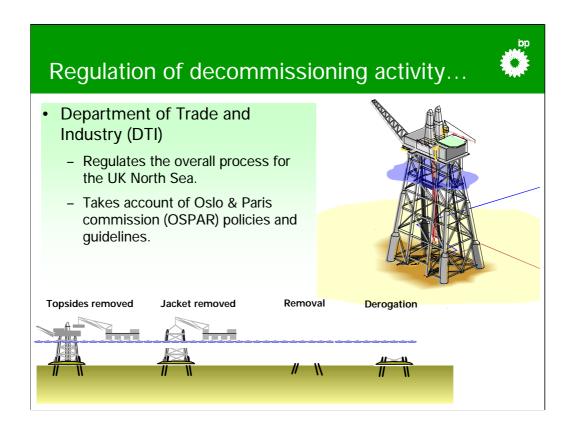
• The jacket weighs 17,000 tonnes and was built at Ardersier in the North of Scotland



• The jacket was launched from the barge and fixed to the seabed by a total of 24 steel piles, each of 48 inch diameter



- The exact timing of platform removal can not be determined until other decisions have been made.
- We do not expect any major removal activity to start before 2005 at the earliest.
- The bar chart shows the possible window when removal might take place.
- This is likely to happen over a couple of 'seasons' as much of the activity is weather dependent.



- The current regulatory position on the decommissioning of redundant offshore installations is based on the presumption that all of the structure should be removed.
- The DTI guidelines require a 'comparative assessment' to be carried out for certain components of the facility.
- If it is necessary to leave the footings of a steel jacket over 10,000 tonnes or a concrete gravity based structure in situ, the OSPAR process known as 'derogation' will be followed.

Decommissioning programme process Comparative Assessment Studies Stakeholder Consultation Comparative Selected Draft Submit Approval Assessment Findings options **Programme** To DTI Processes Independent **Review** Group

- BP will use the comparative assessment process to identify the best options for the jacket footings, pipelines and drill cuttings pile, in line with requirements of the DTI guidelines
- This will form a key part of our decommissioning programme submission to the DTI which we expect to make by the end of 2003.
- An Independent Review Group is being set up to audit the comparative assessment studies and process.
- Stakeholder consultation will also be a key part of the process

Comparative assessment process



Objectives of comparative assessment

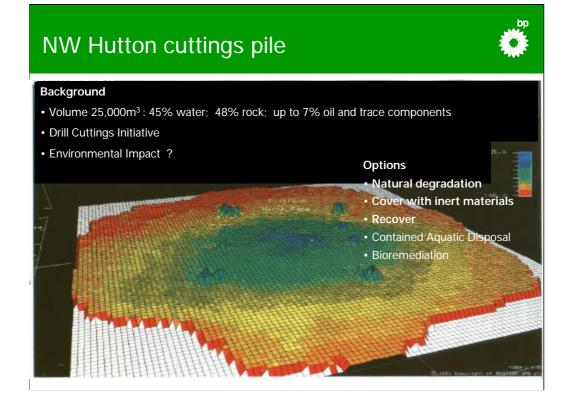
• To evaluate the alternative options for footings, cuttings pile and pipeline (total removal + partial removal) against a number of factors

 Outcome: a balanced judgement of the HSE, technical, social, economic factors

Independent verification



- The comparative assessment process will be a balanced judgement of key factors in five areas environmental, economic, social, safety and technical.
- A series of wide ranging studies will be used as the input for this comparative assessment work.



- This image of the NWH cuttings pile shows that the pile is mainly rock and water containing some oil and other components at trace levels.
- Environmental impact and options have been intensively studied by UKOOA including stakeholder consultation
- Five options identified. The last two contained aquatic disposal and bioremediation have been ruled out as not practical.



• Context for the next slide

Platform jacket....

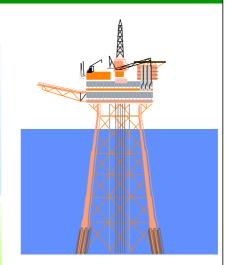
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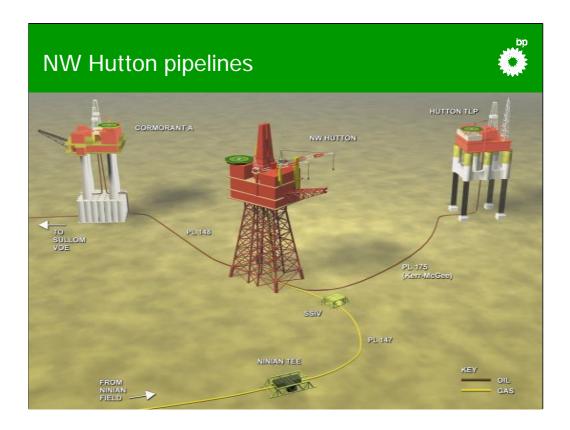
Background

- Largest fixed jacket removal to date 17,000 tons
- · Water depth of 143 metres
- Sub-sea cutting and lifting of large pieces
- Technical and marine logistics challenge
- No technology to remove in one piece

Options

- Remove complete jacket
- Footings remain in place (Derogation)





- The oil export line (PL 148) is 20 inch diameter with concrete coating and lies on the sea bed.
- This oil line runs from NWH to Cormorant A, a distance of around 10km.
- •The gas line is 10 inch diameter and was trenched at the time of laying.
- This line runs between NWH and the Ninian field and BP is responsible for the first 12 km up to but not including the Ninian Tee.
- The SSIV (Sub Sea Isolation Valve) on the gas line will be removed as part of the decommissioning programme
- The Hutton TLP shown in the schematic has now been removed by the operator but the oil line has been left in place.

Pipelines Background • Technical challenge of removal • Condition of the concrete coating • Impact on environment and other sea users 20" Oil Export 13 km to Cormorant A

Options

- Complete removal
- Lines trenched and buried
- Lines on the seabed

