



DYNAMIC POSITIONING CONFERENCE

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BASICS OF DP

Determination of Desired DP Class

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Determination of desired DP Class

Classification definition:

APS: Propulsion Assist

PAS: Athwartship

DPS-0: No back-up

DPS-1: Manual centralized control backup, automatic heading

DPS-2: Backup for any single fault

DPS-3: Backup for combination of any single fault and 1-compartment loss

Following has been considered:

Primary

- Cost
- Contract availability
- Client=s requirements
- Space availabilty on board existing unit
- Waterdepth
- Time available

Secondary

- Technology required and available
- New Build or Conversion
- Available inhouse experience

Result:

DPS-02 APS for 6 EVA designed units because:

- DPS-02 sufficient to fulfill contract requirements
- DPS-02 adequate for intended purpose

- Long term contracts signed prior to go ahead
- Inhouse experience with DPS-02 and EVA readily available
- DPS-02 places less restrictions on manpower requirements:
- More available experience
 - Less cost
 - Cost increment of DPS-02 compared to DPS-01 negligible
- Greater flexibility
- Humans backed up by computer
- Cost reduction of DPS-02 compared to DPS-03 considerable
- No intention of prolonged unassisted deepwater voyages --APS
- EVA conversion because:
 - Reduced cost existing units
 - Availability existing units
 - Motion characteristics superior
 - Drillship design not relevant, too expensive