



## Case Study: Offshore Control Room Design. Location: Clair Oil Platform.

### Brief

Specialist design input to assess contractor led proposals for the Control Room Environment and to generate revised proposals for optimising the operational environment, in line with current Control Room 'Best Practice'.

### Solution

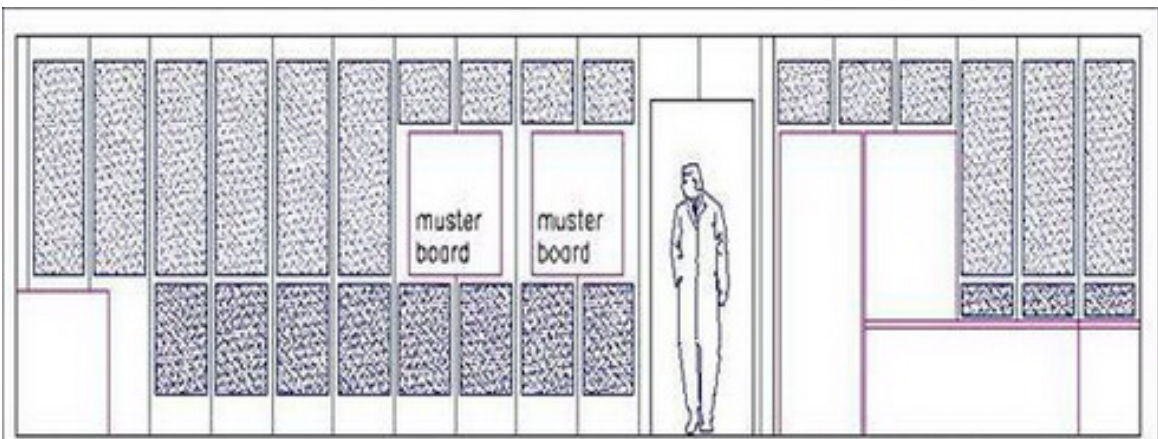
The work involved the assessment of existing contractor proposals, a site visit to Norway to view construction of the facility, and preparation of a final report covering Acoustics, Lighting, Ergonomics, Colours and Finishes.



**Acoustics & Lighting Study, BP Clair CCR**  
**Reverberation Time Calculations**

**CURRENT PROPOSALS**

SURFACE	FINISH	AREA (m <sup>2</sup> )	ABSORPTION COEFFICIENTS AND UNITS					
			LOW FREQUENCY (125 Hz)		MED FREQUENCY (500 Hz)		HIGH FREQUENCY (2000 Hz)	
			ABSORB CO-EFF	ABSORB UNITS	ABSORB CO-EFF	ABSORB UNITS	ABSORB CO-EFF	ABSORB UNITS
CEILING	Perforated pvc foil	85	0.5	42.5	1.0	85	0.85	72.25
WALLS	pvc foil	105	0.2	21	0.5	52.5	0.6	63
FLOOR	timber laminate	85	0.02	1.7	0.03	2.55	0.03	2.55
WINDOW	Glazing	1	0.35	0.35	0.18	0.18	0.07	0.07
CURTAINS	Cotton	1.2	0.07	0.084	0.49	0.588	0.65	0.78
SEATS (UNOCCUPIED)	-	No 5	0.1	0.5	0.25	1.25	0.4	2
AIR	-	212m <sup>3</sup>	-	-	-	-	0.007	1.48
OCCUPANTS (ESTIMATED)	-	No 5	0.17	0.85	0.43	2.15	0.47	2.35
<b>TOTAL ABSORPTION UNITS</b>				<b>66.98</b>		<b>144.22</b>		<b>144.48</b>



**ELEVATION D**  
SCALE 1:50

total wall area = 27.6m<sup>2</sup>  
acoustic panel area = 10.8m<sup>2</sup>