ta = 28mm  

$$H = 25m$$
  
 $f = 100M \text{fa}$   
Design Press. =  $1.05 \times 2 \text{ Mfa} = 2.1 \text{ Mfa}$   
Correded Shell Thickness =  $25 \text{ mm}$   
 $Di = 2m$   
 $Y_s = 7.7 \times 10^9 \text{ N/m}^2$ 

Wmin = 
$$\pi(Di+ta)ta HYs$$
  
=  $\pi(2+28\times10^{-3})(28\times10^{-3})(25)\times7.7\times10^{+3}$ 

We = Weight of Water = 
$$\pi 0i^2 \times h_{shell} \times 9 \times l_w$$

Thin = 6.35 × 10 5 × 
$$\left(\frac{H}{0}\right)^{\frac{3}{2}}$$
 ×  $\left(\frac{W_{min}}{t}\right)^{\frac{1}{2}}$ 

$$= 6.33 \times 10^{-5} \times \left(\frac{30}{2}\right)^{\frac{3}{2}} \times \left(\frac{334}{0.026}\right)^{\frac{1}{2}}$$

$$T_{\text{max}} = 6.35 \times 10^{-5} \times \left(\frac{30}{2}\right)^{\frac{3}{2}} \times \left(\frac{1113}{0.026}\right)^{\frac{1}{2}}$$

$$P_{W(min)} = 0.7 \times 1 \times (0.05 \times 150^{2}) \times 2 \times 30$$
(0i)

$$P_{W(max)} = 0.7 \times 2 \times (0.05 \times 150^{2}) \times 2.056 \times 30$$

$$M_{W(min)} = 47.2 \times 30 = 708 \text{ kNm}$$
 $\binom{P_{W(min)}}{y_2}$ 

$$M_{W(max)} = 97.1 \times 39 = 1456.5 \text{ kNm}$$
  
 $(P_{W(max)}) \cdot \binom{1}{2}$ 

$$\frac{62 \text{Wm (min)}}{\pi 0^2 \text{t}} = \frac{4 \times 708}{\pi \times 2^2 \times \text{t}}$$

$$= \frac{225.36}{4} \text{ kPa}$$

$$62W_{m} (max) = \frac{4M_{w}(max)}{\pi 0^{2}t} = \frac{4 \times 1456.5}{\pi \times 2^{2} \times t}$$

$$G_{Z(min)} = \frac{W_{min}}{\pi 0_0 t} = \frac{343}{\pi x z x t} = \frac{54.5}{t} k la$$

$$\frac{\sigma_{z(max)}}{\sigma_{z(max)}} = \frac{W_{max}}{\sigma_{t(max)}} = \frac{176.85}{t} k_{a}$$

$$G_{Z} = G_{ZWM} + G_{ZSM} - G_{ZW} = fJ$$

$$= \frac{463.6}{t} + \frac{362.8}{t} - \frac{54.5}{t} = 0.85 \times 100 \times 10^{3}$$

Max. Compresible stresse

$$6z = 6z_{wm} + 6z_{sm} + 6z_{m} + 6z_{m} = 0.125 \text{ Et}$$

$$\frac{1}{t} + \frac{362.8}{t} + \frac{176.85}{t} \times 10^{3} = \frac{0.125 \times 2 \times 10^{5} \times 10^{6}}{2}$$

.. Skirt Thickness = 9.08 mm