

$$\text{Thrust Margin} = \frac{[\text{FNK3} - \text{FNK RATED}(\text{fig. 1301})] \cdot 100}{\text{FNK RATED}}$$

$$\text{Thrust Margin} = \frac{[24858 - 24200] \cdot 100}{24200}$$

$$\text{Thrust Margin} = 2.72\%$$

2. *Hot Day EGT margin*

$$\text{EGTHDM} = \text{EGTHD limit} (\text{fig. 1301}) - \text{EGTHD}$$

$$\text{EGTHDM} = 919 - 888.3 = 30.7 \text{ } ^\circ\text{C}$$

Karena *engine* mengalami *flowpath restoration*, maka nilai EGTHDM ditambah dengan 5 °C untuk mendapatkan hasil yang sesuai, dengan begitu nilai EGTHDM = 35.7 °C

3. *Hot Day N2*

$$\text{N2HD} = \frac{[\text{N2HD limit} (\text{fig. 1301}) - \text{N2CC3 or N2CC3M}] \cdot 100}{\text{N2HD limit}}$$

Dimana:

$$\text{T2143H} = 518.67 \cdot \text{EXP} \left(\frac{\ln \left(\frac{14300}{\text{N2K3}} \right)}{\text{EXP N2HD}} \right)$$

$$= 518.67 \cdot \text{EXP} \left(\frac{\ln \left(\frac{14300}{14297} \right)}{0.5} \right)$$

$$= 518.9 \text{ } ^\circ\text{R}$$

$$\text{N2CC3} = \left(\frac{14300}{\left(\frac{518.9}{14358} \right)^{0.378}} \right) \cdot (1.05206^{0.378})$$

$$= 14575 \text{ (hot day core speed)}$$

Maka:

$$\text{N2HD Margin} = \frac{[14634 - \text{N2CC3 or N2CC3M}] \cdot 100}{\text{N2HD limit}}$$

$$\text{N2HD Margin} = \frac{[14634 - 14575] \cdot 100}{14634}$$

$$\text{N2HD Margin} = 0.404 \%$$

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