

Table 3.3.1-2 (page 1 of 1)
Thermal Margin/Low Pressure Trip Function Allowable Value

The Allowable Value for the Thermal Margin/Low Pressure Trip, P_{trip} , is the higher of two values, P_{min} and P_{var} , both in psia:

$$P_{min} = 1750$$

$$P_{var} = 2012(QA)(QR_1) + 17.0(T_{in}) - 9559$$

Where:

$QA = -0.720(ASI) + 1.028;$	when $-0.628 \leq ASI < -0.100$
$QA = -0.333(ASI) + 1.067;$	when $-0.100 \leq ASI < +0.200$
$QA = +0.375(ASI) + 0.925;$	when $+0.200 \leq ASI \leq +0.565$

$ASI = \text{Measured ASI}$	when $Q \geq 0.0625$
$ASI = 0.0$	when $Q < 0.0625$

$QR_1 = 0.412(Q) + 0.588;$	when $Q \leq 1.0$
$QR_1 = Q;$	when $Q > 1.0$

$Q = \text{THERMAL POWER/RATED THERMAL POWER}$

$T_{in} = \text{Maximum primary coolant inlet temperature, in } ^\circ\text{F}$

ASI, T_{in} , and Q are the existing values as measured by the associated instrument channel.
