

# **Thermo-mechanical analysis of front plate supported horn**

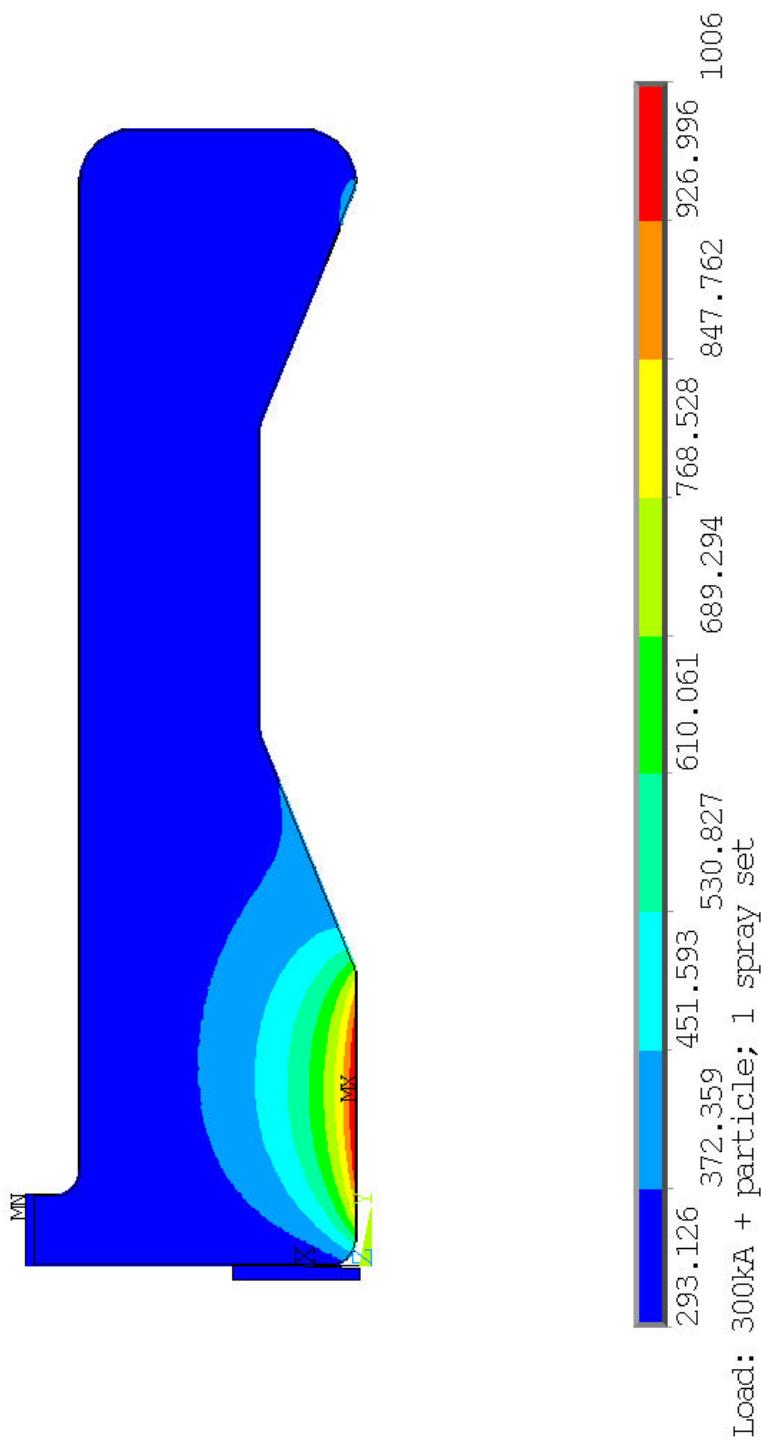
Revision of temperature induced stress level

Jan Bielski

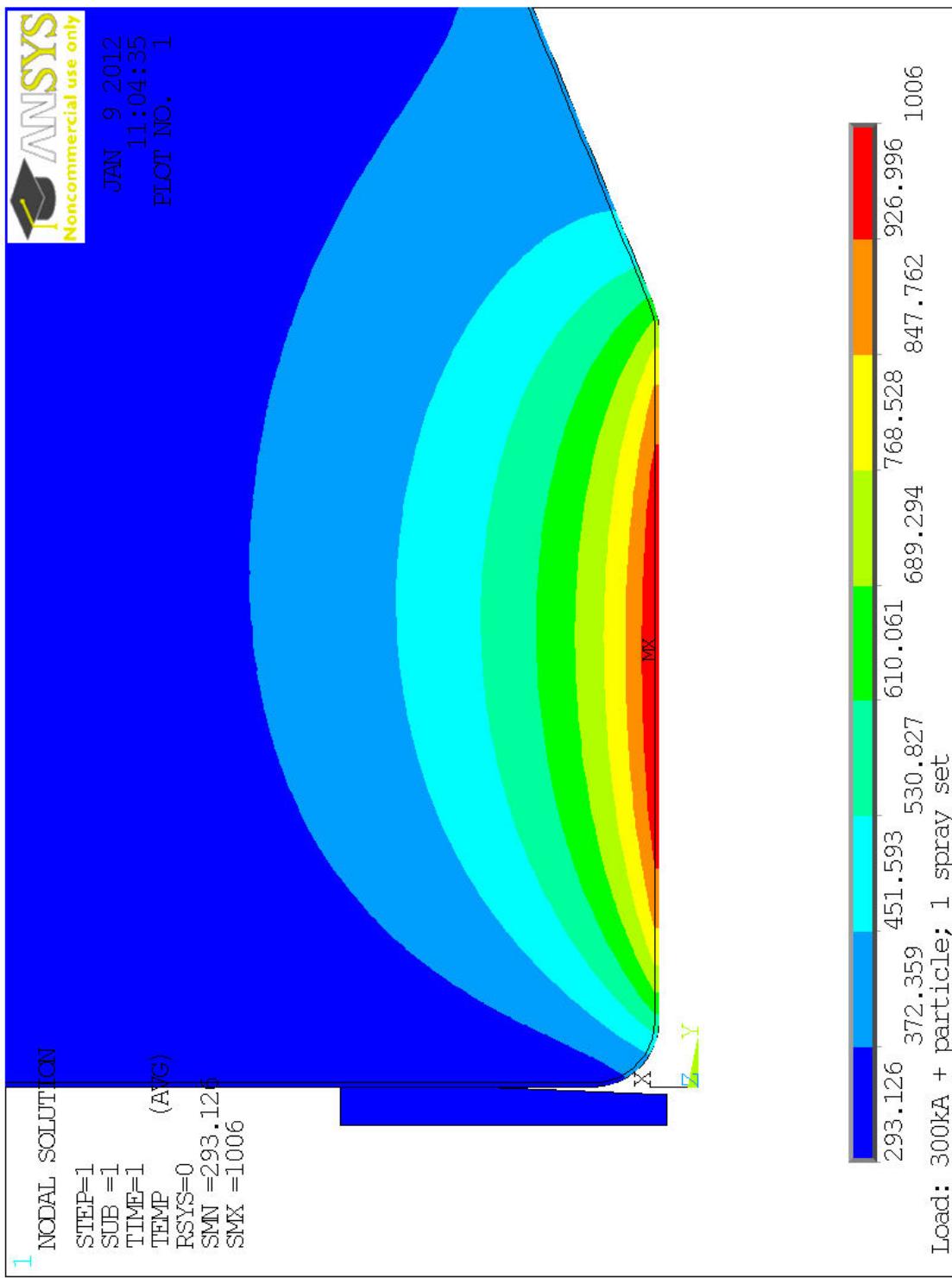


JAN 9 2012  
11:03:34  
PLOT NO. 1

1 NODAL SOLUTION  
STEP=1  
SUB =1  
TIME=1  
TEMP  
RSYS=0  
SMN =293.126  
SYM =10006



Temperature distribution due to current impulse of 300kA + secondary particle energy



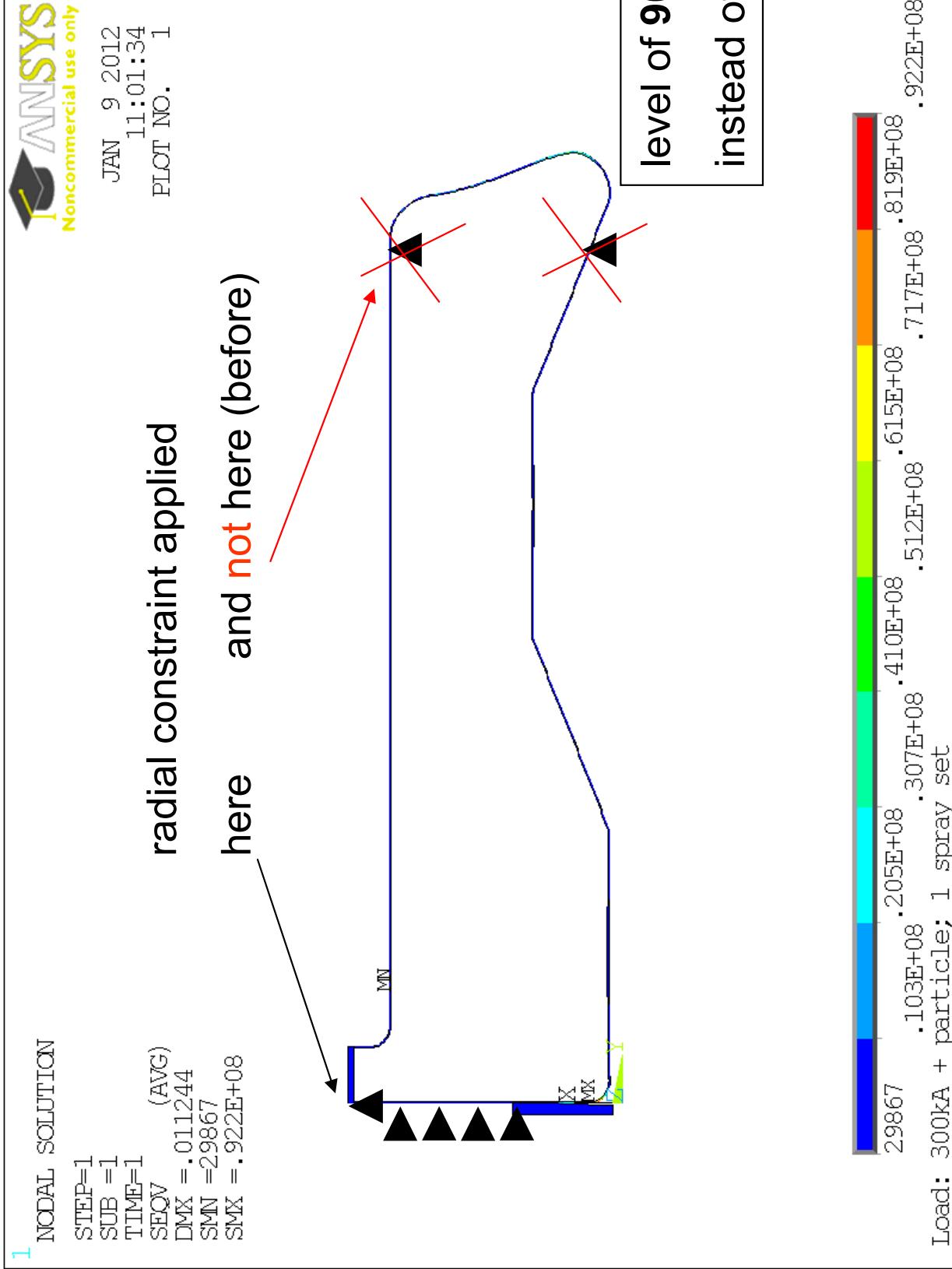
Temperature distribution due to current impulse of 300kA + secondary particle energy

**Still too high**  
temperature level near target

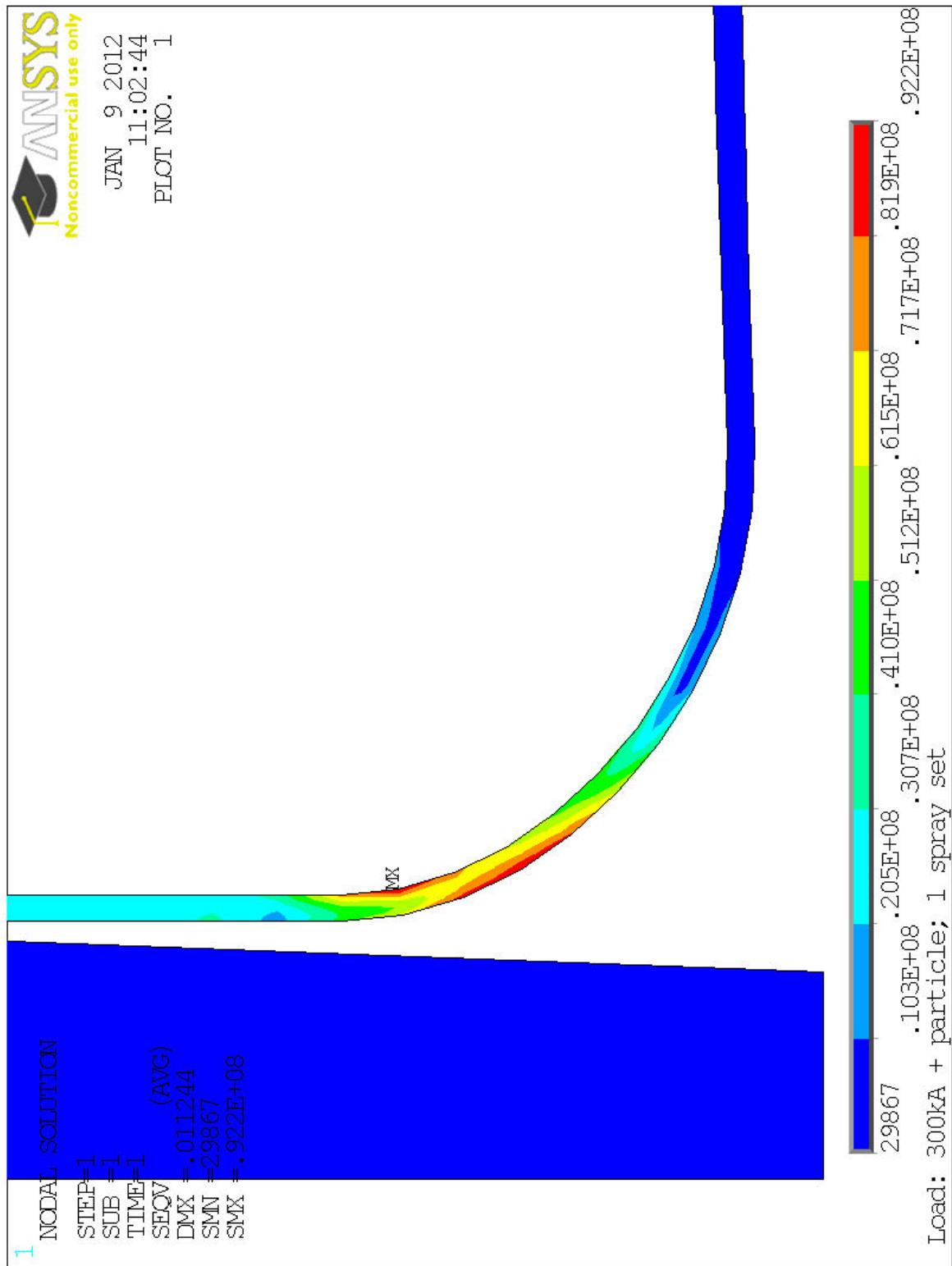
**1 NODAL SOLUTION**

```
STEP=1  
SUB =1  
TIME=1  
SEQV (AVG)  
DMX = .011244  
SMN = 29867  
SMX = .922E+08
```

radial constraint applied  
here and **not** here (before)



Equivalent thermal stress distribution due to current impulse of 300kA + secondary particle energy



**Equivalent thermal stress distribution due to current impulse of 300kA + secondary particle energy**