

## Dennis Roberts

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**From:** Larry Day [lday@nationwideboiler.com]  
**Sent:** Monday, May 10, 2010 11:19 AM  
**To:** Dennis Roberts  
**Cc:** Sales Dept  
**Subject:** BPS Comments  
**Attachments:** CataStak700HPTTestResults.pdf

Dennis,

After review of the most recent BPS document, we agree with most of the changes implemented from the 12-17-09 draft document. However, we do have the following comments:

- The 95% thermal efficiency for fully condensing boilers is very aggressive. A >90% figure would open up many more candidates to achieve this efficiency in their plant's particular operating process.
- The 2% O2 figure for excess air might also be too aggressive in today's marketplace. Many burner manufacturers will currently guarantee 3% (especially when <10% FGR) but 2% does limit burner choices in the marketplace.
- Maybe the 400F stack temperature was OK years ago but current catalyst technology can go down to 325F today. Stack temperatures for SCR catalyst are already currently proven in practice to commonly operate in the 300-400F range, especially on firetube boiler applications and/or at low fire conditions. See attached actual performance results from a 700HP firetube boiler. This unit has been in operation for over 2 years in the Central Valley.

Should you have any questions or want to discuss any of the above points in further detail please give me a call anytime.

Regards,

**Larry Day**  
Executive Vice President  
(800) 227-1966



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5/14/2010