

**Kelly - AFS**

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**From:** "Kelly - AFS" <kelly@advfuelsys.com>  
**To:** <kelly@advfuelsys.com>  
**Sent:** Tuesday, December 15, 2009 1:10 PM  
**Subject:** Fw: Oil Safety Valve

----- Original Message -----

**From:** [Edward Thomas](#)  
**To:** [Kelly - AFS](#)  
**Sent:** Friday, February 08, 2008 8:20 AM  
**Subject:** FW: Oil Safety Valve

FYI, you are highly thought of out here.

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**From:** [Dave.Lockhart@kp.org](mailto:Dave.Lockhart@kp.org) [mailto:Dave.Lockhart@kp.org]  
**Sent:** Friday, February 08, 2008 06:57 AM  
**To:** Harold Hougham  
**Cc:** Edward Thomas  
**Subject:** Re: Oil Safety Valve

Harold, Kelly is exactly right and I'm mad that I forgot about that. Yes, that was one of the problems we had with the steam boilers when we started them up 15 years ago, we blew the pump seals out. The reliefs were and should not be valved off. So it sounds like we may need to incorporate the existing or install this new relief. We will need to retest the system when we start up the new boilers. Kelly's visit was worth every penny!!

Dave Lockhart  
Kaiser Medical Center Roseville  
Project Manager/ Owners Rep  
Support Services  
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"Harold Hougham" <Harold@ra-solutions.com>

02/07/2008 02:42 PM

To: Dave Lockhart/CA/KAIPERM@KAIPERM  
Cc: "Edward Thomas" <Ed@ra-solutions.com>  
Subject: Oil Safety Valve

Dave,

Kelly York of AFS followed up with a comment about the boiler fuel pumps stating that the manufacturer does not allow the inlet oil pressure to exceed 10 psi. As you know, we are generating close to 50 psi at the turbine pumps in a dead head/no flow condition. I am thinking that the existing end of run pressure relief valves may have been installed to prevent this

pressure buildup. However, you commented that the relief valves were valved off and not needed. If we don't use the existing pressure relief, we will need to add an oil safety valve (see attached) at each burner (approximate cost \$65 each for 3/8" size).

What are your thoughts? Let's discuss.

***Haroldold Hougham, P.E.***

Principal



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