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From:	Anchondo, Isaac
To:	Collins, Jay
Cc:	Werner, Greg; Proulx, David; Kopriva, Ron; Alley, David
Subject:	Leak Location
Date:	Thursday, October 13, 2016 1:39:00 PM
Attachments:	leak location.pdf

Jay,

I made an attempt to identify the location of the nozzles to be inspected from some of the pictures that Ron took this past Saturday. Unfortunately, it's hard to see the vicinity of some of the nozzles that you question during the call (i.e., 52, 34, 26).

One item of note, the view next to the vent line is a bit confusing where it's hard to figure out which side you are looking at in relation to the drawing provided.

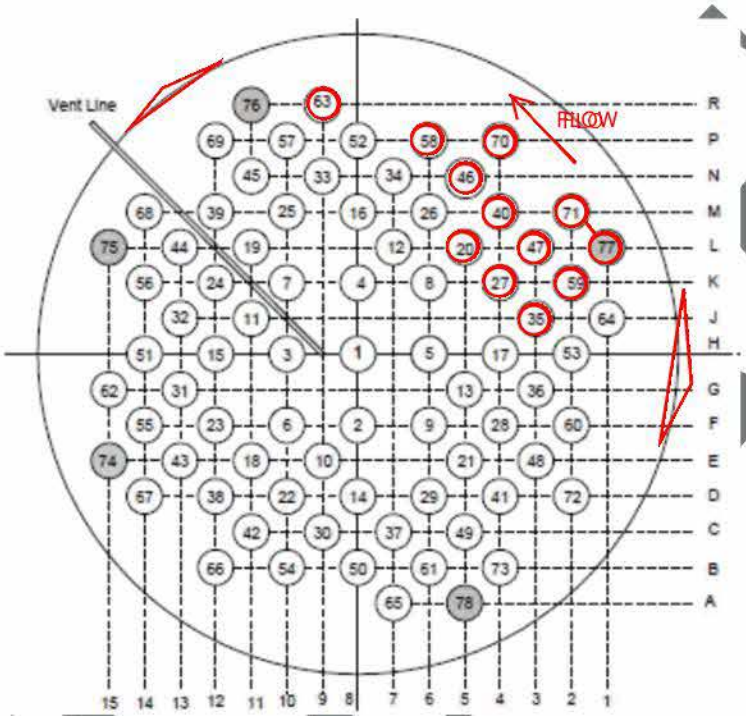
Hope this helps.

Isaac Anchondo

Reactor Inspector
U.S. Nuclear Regulatory Commission | Region IV
Division of Reactor Safety | Engineering Branch 2
(817) 200-1152

4. Reason for Request

Based on visual examination (VE), deposits resulting from leakage in the canopy seal weld on penetration 77 are on the Reactor Vessel Closure Head. These deposits are dispersed on the reactor head in such a way that it is evident they resulted from the spray pattern, or spray deflection, from the canopy seal weld leak. Other observations noted were: 1) the condition of the head which only had surface rust present rather than wastage; 2) the color and location of these deposits were consistent with spray following the crud burst that was then oxidized by exposure to the atmosphere; 3) there was a layer of white boric acid on top of the deposits in a similar pattern indicating that clean borated water had followed the same path; and 4) no penetrations other than those in the path of the spray/deflection show any abnormal indications.



INSERT FIGURE SHOWING PENETRATION LOCATIONS

With this evidence indicating the condition resulted from the canopy seal weld leak above the head the deposits still obscure the head and prevent the required VE from being performed on the affected penetrations. WCNOC will perform supplemental examinations of the affected penetrations.

Twelve penetrations require supplemental examination in accordance with code requirements. Per paragraph -3200(b) of N-729-1 these supplemental examinations "*…shall include volumetric examination of the nozzle tube and surface examination of the partial-penetration weld,…*".

WCNOC does not have the internal resources to conduct the volumetric and surface examinations as required by Code Case N-729-1 – 3200(b). A third party vendor has been contracted to perform the examinations. The options for the surface examination of the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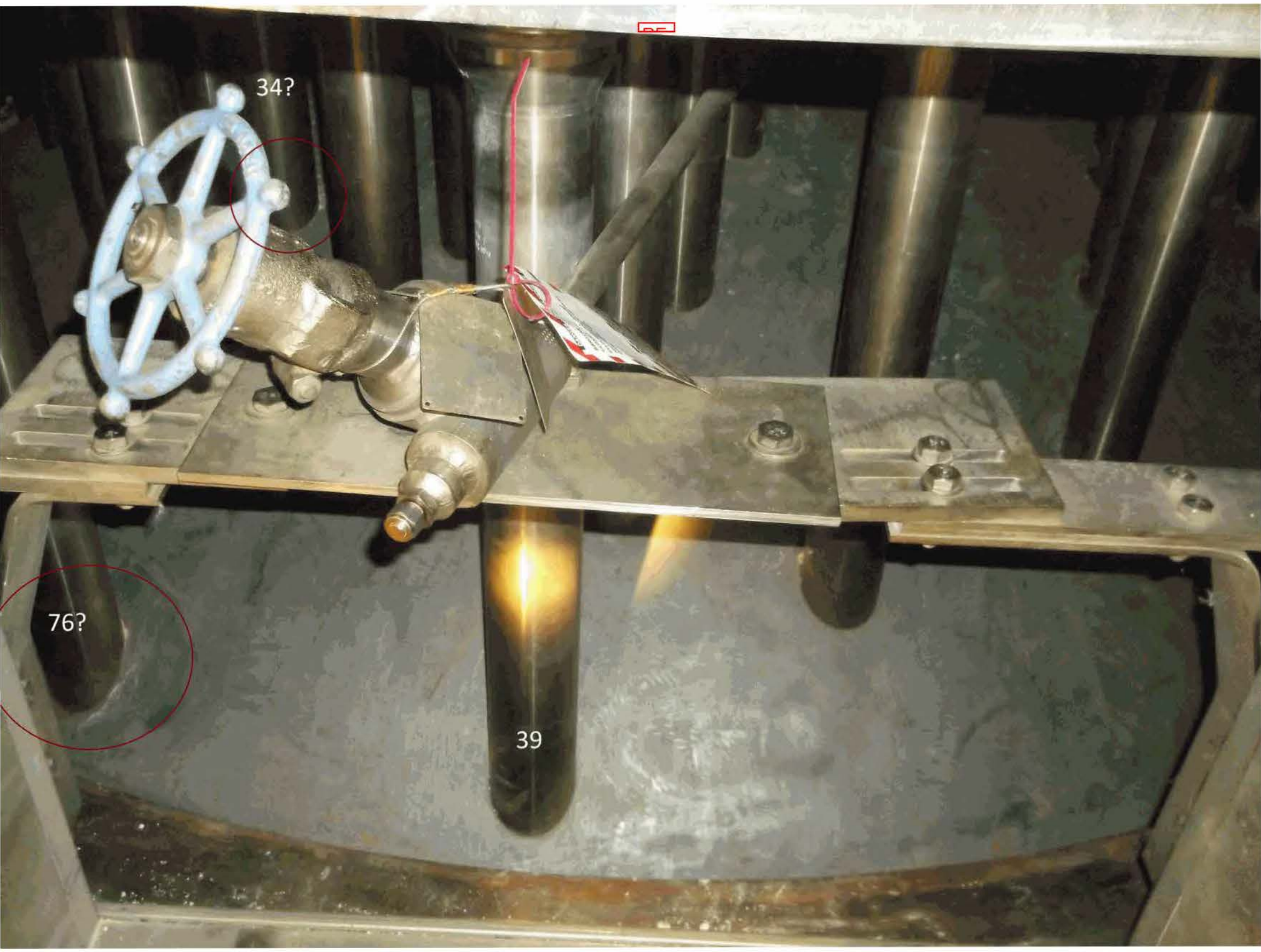
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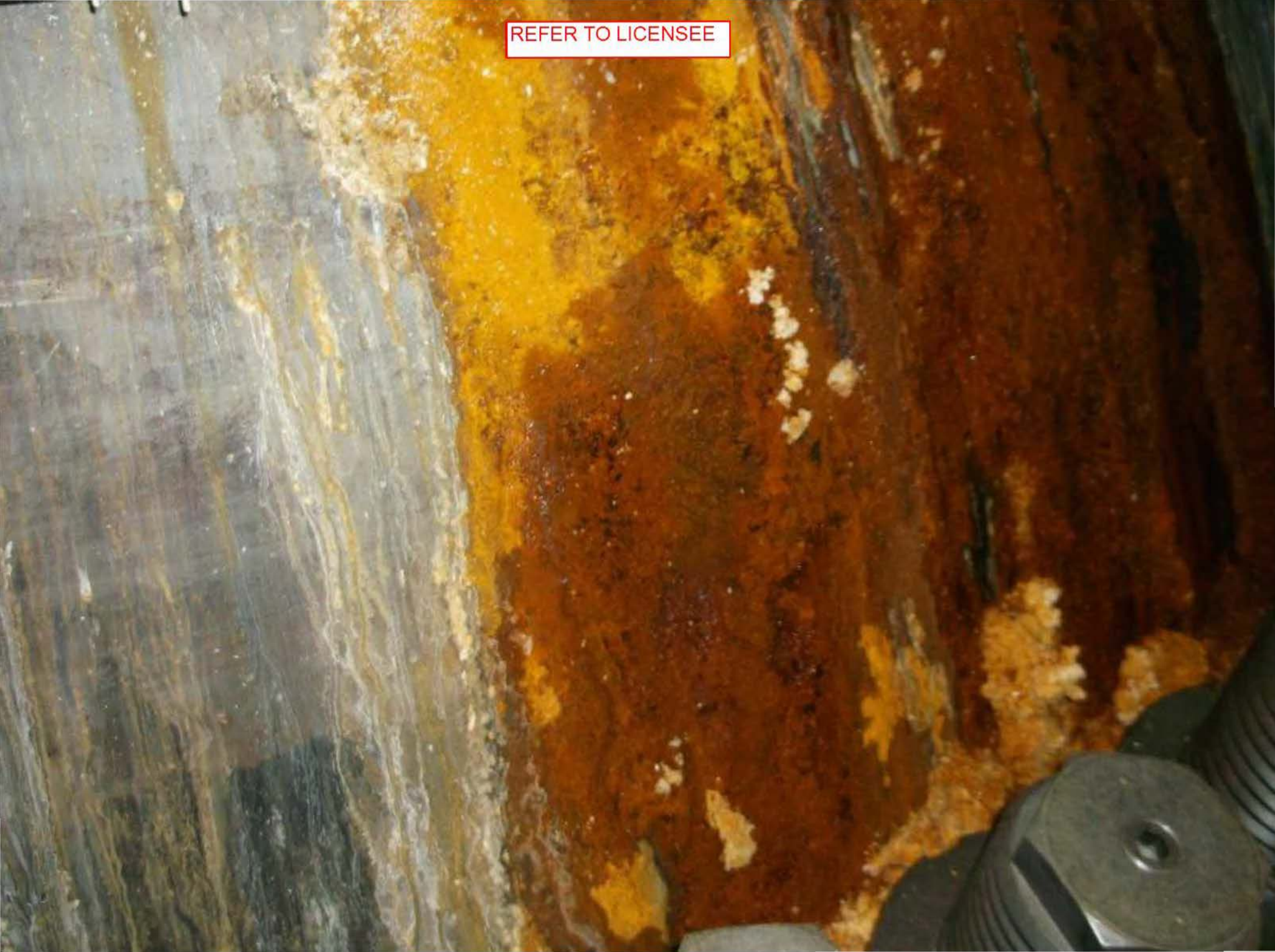
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