

From: [Proffitt, Andrew](#)
To: [Russell, Andrea](#); [Patton, Rebecca](#)
Subject: RE: AP1000 STS Bases Question on TS 3.1.6
Date: Thursday, April 29, 2021 9:52:27 AM

Personally I don't see a need for the term available in the sentence, it seems extraneous. I would recommend deleting it altogether but if it stays moving it to just in front of SDM would be fine. It doesn't really have any meaning in front of ejected rod worth but then again it doesn't really add anything before SDM either...

-Andrew

From: Russell, Andrea <Andrea.Russell@nrc.gov>
Sent: Thursday, April 29, 2021 8:09 AM
To: Patton, Rebecca <Rebecca.Karas@nrc.gov>; Proffitt, Andrew <Andrew.Proffitt@nrc.gov>
Subject: RE: AP1000 STS Bases Question on TS 3.1.6

I appreciate the assist. Thanks so much.

From: Patton, Rebecca <Rebecca.Karas@nrc.gov>
Sent: Thursday, April 29, 2021 8:06 AM
To: Russell, Andrea <Andrea.Russell@nrc.gov>; Proffitt, Andrew <Andrew.Proffitt@nrc.gov>
Subject: RE: AP1000 STS Bases Question on TS 3.1.6

I don't think there's such a thing as "available ejected rod worth", but there is such a thing as "available SDM". But I just skimmed this briefly. Andrew should be able to do this.

From: Russell, Andrea <Andrea.Russell@nrc.gov>
Sent: Thursday, April 29, 2021 8:03 AM
To: Patton, Rebecca <Rebecca.Karas@nrc.gov>
Subject: AP1000 STS Bases Question on TS 3.1.6

Rebecca

I have a question regarding reactor TS for AP1000 STS. We are updating the standard tech. specs. and have a question regarding the placement of a term. Is there someone in your branch that has been involved with the new reactor TSs that I could reach out to? It should require minimal effort (1-2 hours or less) for the question I have. Below is the comparison and question.

Any assistance would be appreciated.

Basically the question is: Where should the term "available" go in this sentence? Does it apply to the ejected rod worth and SDM? If so, we need to have it appear twice as indicated in bold below. The comment is from Craig Harbuck and the action is for me.

VEGP TS Bases up to Rev.	AP1000 STS Bases draft Rev. 1		Disposition
--------------------------	-------------------------------	--	-------------

59		Differences	/ Action
Bases Subsection B 3.1.6 Rev. 48	-	-	-
<p>Background Paragraph 1</p> <p>The insertion limits of the control banks are initial assumptions in the safety analyses that assume rod insertion upon reactor trip. The insertion limits directly affect core power and fuel burnup distributions and assumptions of available ejected rod worth, SDM, and initial reactivity insertion rate.</p>	<p>Background Paragraph 1</p> <p>-</p> <p>The insertion limits of the shutdown and control rods banks are initial assumptions in the safety analyses that assume rod insertion upon reactor trip. The insertion limits directly affect core power and fuel burnup distributions and assumptions of available ejected rod worth, available SDM, and initial reactivity insertion rate.</p>	<p>No differences after including indicated change to conform to PTS Bases Rev. 48; it is not clear which PTS Bases revision introduced the changes</p> <p>Comment (cch): It appears that 'available' only modifies 'SDM' and not 'ejected rod worth'; need to discuss with reactor systems branch to confirm.</p>	<p>Action (apr): Consult Rx Sys branch about placement of 'available'</p> <p>Disposition:</p> <p>Action (BNL): Implement disposition and make indicated changes to match Rev. 48. Update Sections IV, V, VI, XI, XII</p>

Andrea Russell
Safety and Plant Systems Engineer

Nuclear Regulatory Commission

NRR/DSS/STSB

301-415-8553