



ARKANSAS POWER & LIGHT COMPANY
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September 26, 1980

1-090-26
2-090-36

Director of Nuclear Reactor Regulation
ATTN: Mr. R. W. Reid, Chief
Operating Branch #4
U. S. Nuclear Regulatory Comm.
Washington, D.C. 20555

Director of Nuclear Reactor Regulation
ATTN: Mr. Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing
U. S. Nuclear Regulatory Comm.
Washington, D.C. 20555

SUBJECT: Arkansas Nuclear One - Units 1 & 2
Docket Nos. 50-313, 50-368
License Nos. DPR-51, NPF-6
Waste Gas System H₂/O₂ Limits
(File: 3920, 2-3920)

Gentlemen:

As a result of NRC questions received from Mr. Guy Vissing of your staff which arose from our September 9, 1980, response to Waste Gas System operation concerns at ANO-1, we have modified our plant procedures. Basically, the procedures now limit H₂/O₂ concentrations in the Waste Gas Surge Tank to Region "A" of the attached figure. Upon entrance of the system to Region "B" concentrations a return to Region "A" must be made within 24 hours. No time will the Waste Gas System be operated in Region "C".

Continuous monitoring of the Surge Tank will be done while the system is in operation. If the H₂/O₂ analyzer is out of service then the plant chemists will take grab samples every 8 hours during Waste Gas System operation. If Region "B" of the attached figure is entered during operation then the Decay Tank receiving the gases will be monitored until a return to Region "A" can be accomplished or termination of processing is accomplished.

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MEMBER MIDDLE SOUTH UTILITIES SYSTEM

September 26, 1980

The pressure in the Waste Gas Decay Tanks will be limited to 88 psig to assure that even with a 9% hydrogen (Upper limit allowed by the attached figure) burn, the relief valve setting will not be reached. Such a burn could not be initiated by a spark, which is the only credible source in the waste gas system, but could with an open flame.

The above procedure changes have been made on both AND 1 & 2, and upon review and approval of modified Technical Specifications, will be submitted to the NRC for approval. This submittal will occur no later than October 31, 1980.

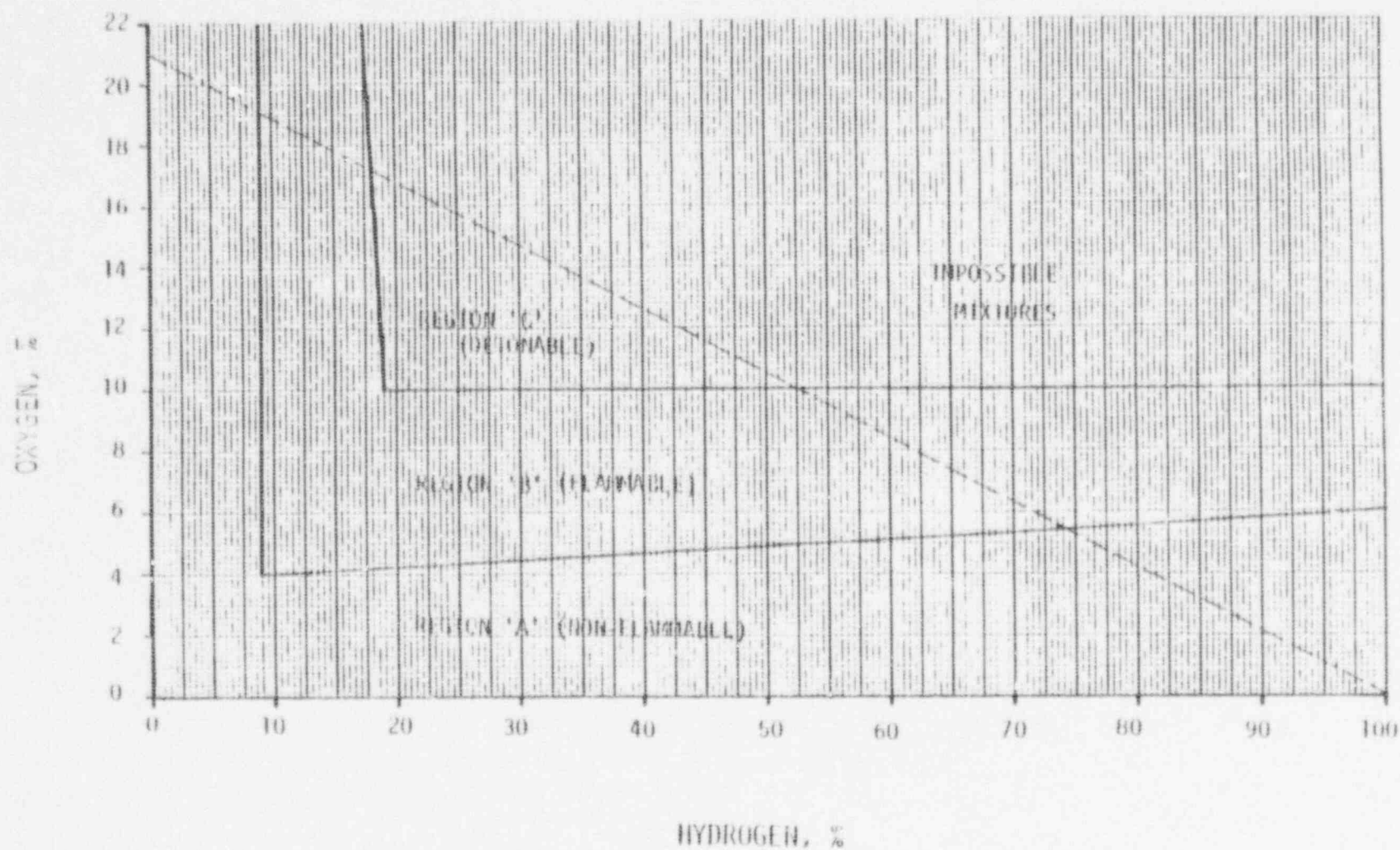
Very truly yours,

David C. Trimble

David C. Trimble
Manager, Licensing

DCT:LDY:lp

Attachment



HYDROGEN - OXYGEN LIMITS FOR A20-1
WASTE GAS SYSTEM