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 KNIGHTON, G.W. Licensing Branch 3

SUBJECT: Discusses fault identified in turbine High Pressure Governor Valves 2 & 4. Valve closure satisfies Tech Spec 3.3.4. Util will implement gags for affected valves by 830210. W/one oversize drawing. Aperture card is in PDR. *new was attached*

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K. P. BASKIN
MANAGER OF NUCLEAR ENGINEERING,
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February 8, 1983

TELEPHONE
(213) 572-1401

Director, Office of Nuclear Reactor Regulation
Attention: Mr. George W. Knighton, Branch Chief
Licensing Branch No. 3
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Gentlemen:

Subject: San Onofre Nuclear Generating Station (SONGS)
Unit 2

Reference is made to telephone conversations of this date between Mark Medford et al. of Southern California Edison Company (SCE) and Mr. George Knighton et al. of the NRC regarding turbine high pressure (HP) governor valves at SONGS Unit 2. A fault has been identified in HP governor valves 2 and 4 which has been observed in the case of one of these two valves to result in it going fully open when it is approximately 40% open. HP governor valves 1 and 3 are of a different design and are not affected by this fault.

Continued operation is allowed by Technical Specification 3.3.4, Action "a" provided that at least one valve in each of the affected steam leads is closed. It is operationally undesirable to close the HP stop valves in the affected leads because the turbine trip logic is effectively put into a one-out-of-two mode and any small perturbation could result in a turbine trip. The affected HP governor valves can be closed, satisfying the Technical Specification Action requirement.

GEC, the turbine manufacturer, has analysed the possibility of HP governor valves 2 and 4 flying open with their respective stop valves fully open. GEC has concluded that the HP governor valves cannot fly open with their respective stop valves fully open provided that the unitized actuator hydraulic power pumps are taken out of service. SCE has disabled the hydraulic power pumps of the affected valves. By taking this measure which satisfies the conditions of the GEC analysis, SCE considers that closure of these HP governing valves fully satisfies the requirement of Technical Specification 3.3.4 Action "a", and therefore SCE believes that continued operation is justified. However, at the NRC's request, SCE is designing and implementing "gags" for the affected valves. SCE plans to implement these gags by February 10, 1983 and in the interim will maintain the stop valves in the affected leads in the closed position.

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Mr. G. W. Knighton

-2-

February 8, 1983

Attachment A shows the construction of an HP governor valve and details of the gag and how it will be implemented. GEC has been requested to evaluate the adequacy of the gag. Details of both the GEC analysis of the possibility HP governor valve opening and of the GEC evaluation of the adequacy of the gag have been requested and will be forwarded to the NRC upon receipt. In addition, SCE will replace HP governor valves at the completion of testing at the 80% power plateau and prior to proceeding to 100% power.

Should you have any questions regarding the information provided by this letter, please call me.

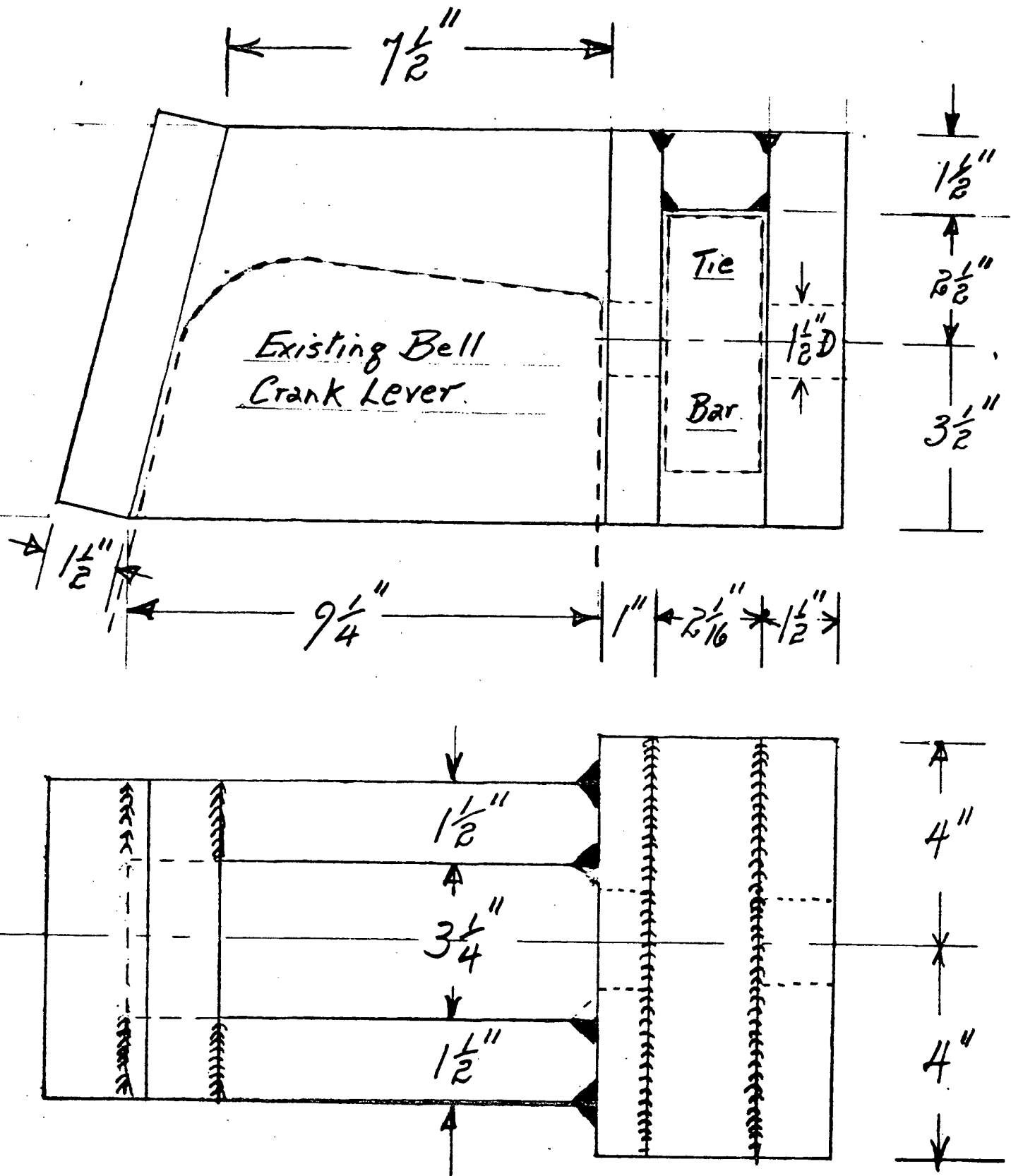
Very truly yours,

M.O. Medford for KPB

Enclosures

cc: Harry Rood, NRC (To be opened by addressee only)

FABRICATED CLAMP FOR THROTTLE VALVE



Material: M.S. Plate $1\frac{1}{2}"$ AND $1"$ Thick.
 All Welds $\frac{1}{2}"$ Fillet.