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Unique No: BUR 77192 R
Your Ref: NII 2625 N Dated 26 March 2007
Unique No:

FAO [REDACTED] AWE(B) [REDACTED]

Dear [REDACTED]

AWE - Burghfield Assembly Facility – Closure of PRS Shortfalls

Thank you for your letter, NII 2625N, dated 26 March. We have now had the opportunity to review this and are pleased to see that AWE is making every endeavour to address as many of the shortfalls as possible by the September 2007 "Decision date". We understand the reasons given in the letter for the possible delays with some of the shortfall remediation work packages and the implications of attempting to meet the September date regardless of other considerations.

NII internal guidance suggests that in the course of the PRS process, we would expect a licensee to have addressed ALL the category 1 shortfalls by the "Decision date". Because of this NII is uncomfortable that some of the Burghfield shortfalls, particularly those at category 1, will not have been addressed by this time and that in some cases it may not even be clear by then what the final proposal and timescales will be. As a result NII will need a robust ALARP argument for the shortfalls identified in the attached table, (most of which are category 1 shortfalls), which will explain why it is not possible to address them before the September 2007 "decision date". This should include a demonstration that AWE has been working on a solution at least since publication of the PRS report and preferably, in the case of category 1 shortfalls, since the shortfall was first identified. This information

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should be provided either to [REDACTED] or myself as soon as possible as it is likely that NII will want to subject these arguments to robust challenge.

You should also be aware that in the event that NII feels that there has not been adequate remediation in the case of a significant shortfall by the "Decision date", it may consider requiring the imposition of some form of operational restriction to compensate, until an adequate solution is in place.

The remaining shortfalls within the attached table fall into two categories; firstly those for which NII is already aware of the programme for shortfall remediation and has accepted that AWE is already doing all that is reasonably practicable, such as the [REDACTED] replacement. Secondly, a number of shortfalls for which the safety significance requires further NII evaluation. These are identified by the initials of the specialist assessor who will undertake this review. It is likely that this review process will take place during the May or June inspection weeks.

I hope the above is self-explanatory, but if you need further clarification, please do not hesitate to contact me at the above address.

I am copying the above letter to [REDACTED] of DNSR.

Yours sincerely

[REDACTED]
HM Principal Inspector, Nuclear Installations

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Building	PRS ref.	Category	Description	Comments
[REDACTED]	1.6.15.1	[REDACTED]	Provide individual vacuum plants in [REDACTED] or in [REDACTED] outer plant rooms	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	1.7.20.1	[REDACTED]	Reconfigure [REDACTED] as training facility and remove safety case claim on compressed air system	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	4.2.6.6	[REDACTED]	Institute specialist inspection by cable specialists (eg. Bridge specialist engineer)	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	4.6.5.5	[REDACTED]	Undertake further analytical work to understand the non-compliance and the strengthening required to achieve compliance (eg. Ductile failure assessment). Contingent on this to consider.	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	5.1.13.1	[REDACTED]	Undertake detailed design – option study to address shortfalls within [REDACTED]. Separate specification.	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	2.1.5.1	2	Install a new interlock mechanism between the [REDACTED]	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	4.6.7.4	2	Undertake analytical work to demonstrate ductility within the structure.	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED] & [REDACTED]	2.9.29.1	2	Install surge prevention to [REDACTED] & [REDACTED] fire dampers.	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	2.9.52.1	2	Upgrade normal and emergency lighting to CIBSE standard.	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	2.1.26.1	3	Provide isolation in accordance with JSP 482.	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	2.9.52.1	2	Upgrade normal and emergency lighting to CIBSE standard.	Accepted on the basis that the work is completed before the facility is next used.
[REDACTED]	3.1.5.4	[REDACTED]	Replace hoists with modern standards hoists.	NOT ACCEPTED – explanation required
[REDACTED] & [REDACTED]	3.3.3.1	[REDACTED]	Replace hoist with a Modern Standard hoist.	NOT ACCEPTED – explanation required
[REDACTED]	3.2.6.6	[REDACTED]	Replace the [REDACTED] with a suitable [REDACTED] (AD, CM). Interim modifications to improve short-term safety.	ACCEPTED
[REDACTED]	4.1.1.1	[REDACTED]	Address building shortfalls.	ACCEPTED
[REDACTED]	4.1.6.1	[REDACTED]	Address shortfalls in LTPT area.	ACCEPTED
[REDACTED] & [REDACTED]	2.1.38.1	[REDACTED]	Upgrade or replace lighting system, including UPS. Provide alarm for emergency lighting failure.	[REDACTED] to evaluate this shortfall

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[REDACTED]	4.2.6.6	[REDACTED]	Institute specialist inspection by cable specialists (eg. Bridge specialist engineer).	NOT ACCEPTED – explanation required
[REDACTED]	2.1.12.1	1	Provide proprietary contacts on the bar and the arc (Brush connector to copper ring).	[REDACTED] to evaluate this shortfall
[REDACTED]	1.6.15.1	[REDACTED]	Provide individual vacuum plants in [REDACTED] or in [REDACTED] outer plant rooms.	NOT ACCEPTED – explanation required
[REDACTED]	3.6.5.1	1	Challenge JSP requirement and justify platform to a more appropriate standard.	NOT ACCEPTED – explanation required [REDACTED] to follow up
[REDACTED]	2.2.2.1	2	Provide Castell key switch to [REDACTED]	[REDACTED] to evaluate this shortfall
[REDACTED]	2.7.4.1	2	Provide interlock between two transformers in [REDACTED] (Castell key or relay) to prevent parallel operation.	[REDACTED] to evaluate this shortfall
[REDACTED]	1.13.1.1	2	Install pressure relief valve or slam shut valve on common delivery line.	NOT ACCEPTED – explanation required
[REDACTED]	1.2.23.2	2	Contract valve manufacturer to test [REDACTED] valves.	NOT ACCEPTED – explanation required
[REDACTED]	2.1.23.1	2	Review both power systems to determine the design intent and the discrimination requirements (eg. Ratings, redundancy delivery status, segregation, etc.) (requirement under BS 7671).	[REDACTED] to evaluate this shortfall
[REDACTED]	2.1.34.1	2	Rewire HVAC systems to eliminate failure when Essential or Normal power supplies are interrupted.	[REDACTED] to evaluate this shortfall
[REDACTED]	2.8.8.1	2	Install emergency task lighting in transfer area/ casually handling room.	[REDACTED] to evaluate this shortfall
[REDACTED]	2.6.4.1	2	LPS to be modified to meet JSP482 if dispensation not gained by facility.	[REDACTED] to evaluate this shortfall
Site Elec	2.7.5.1	2	Undertake cable tests to BS7671.	[REDACTED] to evaluate this shortfall
Site Elec	2.7.9.5	2	Install local UPS on safety related essential systems.	[REDACTED] to evaluate this shortfall
[REDACTED]	2.2.37.1	3	Undertake appropriate EMC tests (NB planned as part of an AWE programme – but not in short term)	[REDACTED] to evaluate this shortfall
[REDACTED]	2.2.5.1	3	Implement recommendations of the Suitability and Sufficiency Assessment	[REDACTED] to evaluate this shortfall
[REDACTED]	2.7.16.5	3	Provide isolation in accordance with JSP 482.	[REDACTED] to evaluate this shortfall
[REDACTED]	2.1.26.1	3	Provide isolation in accordance with JSP 482.	[REDACTED] to evaluate this shortfall

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[REDACTED]	4.2.12.1	3	Repair Gunite Cap to ensure no water ingress.	[REDACTED] to monitor this shortfall
[REDACTED]	2.13.15.1	3	Provide earth leak and overcurrent protection.	[REDACTED] to evaluate this shortfall
[REDACTED] & Site Elec.	2.1.26.1	3	Provide isolation in accordance with JSP 482.	[REDACTED] to evaluate this shortfall
Comms. & [REDACTED]	2.10.12.2	3	Remove all safety related systems from Shorlocks and replace by hard wire systems.	[REDACTED] to evaluate this shortfall
[REDACTED]	4.7.2.3	3	Provide ductility argument.	[REDACTED] to monitor this shortfall
[REDACTED]	1.13.3.1	3	Re-locate gas cylinders to position outside leak test control room (eg. Plant room).	NOT ACCEPTED – explanation required
[REDACTED]	2.2.49.1	3	Install surge protection for [REDACTED] machine.	[REDACTED] to evaluate this shortfall
[REDACTED] & [REDACTED]	2.1.28.1	3	Provide RCD protection.	[REDACTED] to evaluate this shortfall
[REDACTED]	4.10.2.1	3	Tie masonry to steel frame	
Comms	2.10.4.1	3	Undertake sound level mapping to BS EN 60849 of Nuclear Licensed Site to determine audibility.	[REDACTED] to evaluate this shortfall
Site Elec	2.11.1.1	3	Address HVAC/ fire system shortfalls	[REDACTED] to evaluate this shortfall

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cc. Files

[REDACTED]

[REDACTED] DNSR

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