Alpha
Consulting Engineers Pte Ltd

FEEDBACK REPORT FORM

Ref No: 155 – 021012

To: Andrew Loh From: CLM 1/10/2012

Job No./Project: General *(where applicable)*

Source of feedback: FFAI Master specs

Scope of Feedback: * ☐ Quality ☐ Environmental ☐ Administrative ☐ Contractual
☐ Technical ☑ Specification ☐ Others

Section A : Problem & Cause

FFAI master specs – To amend clause 2.4 Jockey Pump & 2.5 Hosereel pump as per CP52 & CP29

Section B : Mitigating Action Taken, if any

Section C : Suggested Corrective Action

See attached marked up on the specification

Section D : Approved Corrective Action

Document Affected * : ☒ Yes ☐ No Affected Document : FFAI Spec.

Approved By : LCT Date : 2/10/2012

Section E : Action

Action By : CLM / Admin. - NA

Targeted Completion : 5/10/2012

Actual Completion : 3/10/2012 Verified By : 3/10/12

** Mark [X] where appropriate*

Distribution:

All pipe fittings, elbows, etc. before the flexible connections shall be rigidly connected to the inertia block. The Contractor shall submit samples of the vibration isolators for review before site construction can commence.

Bolt down type metal guard shall be installed over each coupling with holes neatly cut and trimmed for Tachometer readings.

2.2 Sprinkler Pumps

Sprinkler pumpsets shall be listed by recognised institution and comply with all requirements of the SS CP 52.

Each pumpset shall be capable of circulating not less than the nominal rate specified in the Schedule of Technical Requirements, against the head of the system. The performance characteristics of sprinkler pumps shall meet the requirements of the SS CP 52.

Where required, the Contractor shall provide automatic priming equipment for pumps to comply with SS CP 52 and also to ensure that pumps will be fully primed with water at all times.

2.3 Wet Riser Pumps

Wet riser pumpsets shall be listed by recognised institution and comply with all bye-laws, regulations, orders and requirements of the Fire Safety and Shelter Department, Singapore Civil Defence Force and the Building and Construction Authority. In particular, Singapore Standard CP 29: Code of Practice for Fire Hydrant Systems and Hosereels shall be complied with.

This clause mentioned of Wet Riser System and Sprinkler System. The Specifier should modify this clause if only Wet Riser System or only Sprinkler System is required.
20/10/03

2.4 Jockey Pumps

Jockey pumpsets shall comply with all bye-laws, regulations orders and requirements of the Fire Safety and Shelter Department, Singapore Civil Defence Force and the Building and Construction Authority as well as SS CP 52 and Singapore Standard CP 29 where connected to the sprinkler and wet rising main installations.

Jockey pumps shall be capable of delivering a head of approximately 0.7 bar ~~(23 feet)~~ higher than the pressure in the sprinkler or wet rising trunk mains when a sprinkler or a wet riser pump is churning. Jockey pumps shall be carefully selected so as to operate on the steep flow characteristic curves and ~~such that when delivering 22.5 lit/min. (5 Igpm), pump heads shall be around the pressure of the sprinkler or wet rising trunk mains when the pumps are churning.~~ the flow rate shall not exceed 4 litres/min

2.5 Hose reel Pumps

Hose reel pumpsets shall be designed and installed for automatic operation so as to enable the respective hosereels to achieve the necessary pressure at the end of each of the nozzle such that when two hose reels with the least hydraulic heat in the system are operating simultaneously each hose reel will provide a jet of not less than ~~6~~ 10m ~~(20 feet)~~ in length at a flow rate of at least 0.4 lit/sec. One standby pump shall be provided for each duty pumpset.

Pumps shall be carefully selected so as to operate on the 'flat- point' on their respective flow characteristic curve.

All pipe fittings, elbows, etc. before the flexible connections shall be rigidly connected to the inertia block. The Contractor shall submit samples of the vibration isolators for review before site construction can commence.

Bolt down type metal guard shall be installed over each coupling with holes neatly cut and trimmed for Tachometer readings.

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Where necessary, suitable orifice plate may be used at the pump discharges so as to obtain the required characteristics; or alternatively, vertical multi-stage centrifugal pumps may be selected to meet the specified requirements.

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