GENERAL

The following changes in the Tender Documents are effective IMMEDIATELY. This addendum will form part of the Contract Documents

APPROVED ALTERNATIVE MATERIALS

APPROVED AS EQUAL	SPECIFIED
Pump(s) / Suction Guide(s)	**Armstrong**

DRAWINGS

1. Reference: Drawing M13 - Mechanical Schedules and Details
    See below for accepted equals:

    a. Product: Pumps
        Specified approved manufacturers: Bell & Gossett, Taco, Grundfos.
        Equal: Armstrong.

CLARIFICATIONS

1. The requests for alternative Boiler was not approved since the proposed equipment (RBI FlexCore FireTube boiler) is not a dual temperature return boiler.

QUESTIONS

1. *Can you confirm the complete anticipated duty conditions for validation of the product? Missing information to provide should include:*
    a. *Loop circulation flow rate*

    i. **Answer**: Flow rates are indicated below:

TAG	DESCRIPTION	FLOW RATE (L/s)	HEAD (kPa)
P-1	Hot Water Circulation Pumps (Lead/Lag)	31.55	149
P-2		31.55	149
P-23	Radiation Recirculation Pumps (Lead/Lag)	7.89	149
P-24		7.89	149

Please refer to drawing M13 for more details.

    b.   Heating medium confirmation (plain water or glycol mixture, specify %)

        i.   **Answer**: Plain Water

    c.   Maxiumum deltaT (assuming 11 degC rise as per above) for loop flow rate

        i.   **Answer:** Maximum deltaT of 11 degrees C

2. *Can you also advise whether a boiler design with rating of 5 bars would be acceptable? After all, the loop is running at low pressure since you ask for relief valve setting of 1100 kPa. We don't see the point of limiting your options and excluding technologies that would already have a near 5x safety factor over you maximum relief valve setting.*

Answer: Proposed equipment must have the same pressure rating as the reference unit.

END OF ADDENDUM 3