

EPA Form 2C
Attachment 1
Narrative for Rock Island Intake Points

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SEP 19 2019
Dept of Ecology
Central Regional Office

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Rock Island Hydroelectric Project

Narrative for Rock Island Intake Points

Purpose: to provide a narrative of cooling water intake locations at Rock Island Dam

General

All intakes references are for the actual service water intakes and not the turbine intakes. Most of the service water intakes are located within the turbine water passages and consist of a pipe covered with grating.

Terminology: Water intakes numbering corresponds to the discharge number; i.e. RIWI03 is the water intake corresponding to the discharge RI03.

Rock Island Dam has 16 distinct cooling water intakes, which are described below. Intake flows match outfall flows.

RIWI03-RIWI07 – Intakes water at the roof of each respective unit intake. RIWI03 has 12 x 12 inch grating with 1-1/2 inch openings. RIWI04- RIWI04 each have a 18 x 18 inch grating with 1-1/2 inch openings. (Drawing 5579-FC-4133)

RIWI08 – RIWI13 – Intakes for powerhouse 1 units B5-B10 draw water from the roof of the scroll case at each side of the unit through two 12x 12 inch strainers (on each side of the unit) with 1-1/2 inch openings. (Drawing 8591-FP-8)

RIWI14 – RIWI15 – Intakes unit water from side of intake at EL 540 through a 20 x 20 inch with a grating with 2-1/2 x 2-1/2 inch openings. (Drawings 12046-FH-14E-7 and 12046-FP series)

RIWI19 – RIWI21 – Intakes from the Attraction Water Pump (AWS) gearbox cooler consist of a 1 inch line drawing from the pump water passage way. The inlet configuration is unknown but given the small amount water used it is likely it is just a bare pipe opening or small screen. All three AWS pumps have the same configuration.

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