

## Power Plant Approval 23808-D02-2018

Appendix 1 to Decision 23808-D01-2018	December 21, 2018
TransAlta Corporation Keephills Power Plant Units 1 and 2 Conversion to Natural Gas-Fuelled	Proceeding 23808 Application 23808-A001

TransAlta Corporation (TransAlta), pursuant to Approval U2014-52,<sup>1</sup> is the operator of a power plant designated as the Keephills Power Plant Units 1 and 2, in the Keephills area.

TransAlta, by Application 23808-A001 registered August 2, 2018, applied to the Alberta Utilities Commission for approval to alter and operate the power plant by converting the power plant from coal-fuelled to natural gas-fuelled.

The Commission, pursuant to sections 11 and 19 of the *Hydro and Electric Energy Act*, approved the application in Decision 23808-D01-2018,<sup>2</sup> and granted an approval to TransAlta to alter and operate the power plant, subject to the provisions of the *Hydro and Electric Energy Act* and the *Alberta Utilities Commission Act*, any regulations made under the acts, any orders made under the acts, the Commission rules made pursuant to the *Alberta Utilities Commission Act*, and the following terms and conditions:

1. The power plant shall be located in the northeast quarter of Section 36, Township 51, Range 4, west of the Fifth Meridian as shown in Appendix A.
2. The power plant shall consist of two natural gas-fired 406-megawatt (MW) maximum continuous rating capability units for a total net generation capability of 812 MW.
3. Regarding the cooling ponds:
  - a. The cooling ponds required for units 1 and 2 shall be located within section 1, 2, 3, 11, and 12, of Township 52, Range 4, west of the Fifth Meridian and Section 7, Township 52, Range 3, west of the Fifth Meridian as shown in Appendix A.
  - b. The cooling ponds shall be designed for and operated at a maximum full supply level of 750.5 metres above sea level.
  - c. TransAlta shall maintain a buffer zone around the cooling ponds.
  - d. The buffer zone required by clause (c) shall extend not less than 10 metres measured horizontally from the cooling pond shoreline at the full supply level.

<sup>1</sup> Power Plant Approval U2014-52, Proceeding 2975, Application 1610169, February 19, 2014.

<sup>2</sup> Decision 23808-D01-2018: TransAlta Corporation – Coal-to-Gas Conversion of Keephills Power Plant Units 1 and 2, Proceeding 23808, Application 23808-A001, December 21, 2018.

4. Regarding the raw water storage pond:
  - a. The raw water storage pond shall be located between the intake and discharge canals and south of Highway 627 in the northwest quarter of Section 36, Township 51, Range 4, west of the Fifth Meridian as shown in Appendix A.
  - b. TransAlta shall maintain the water level of the raw water storage pond at a level not more than 752.5 metres above sea level.
5. Regarding the access railway:
  - a. The access railway to the power plant shall be located, unless otherwise stipulated by the Commission, as shown in Appendix A.
  - b. The width of right-of-way for the access railway shall not exceed 70 metres.
6. Regarding the water make-up and blowdown piping:
  - a. The cooling ponds shall be provided with independent make-up and blowdown pipeline facilities from the North Saskatchewan River to the plant site.
  - b. The make-up and blowdown pipelines shall be located on a right-of-way not to exceed 15 metres in width immediately adjacent to and north of the right-of-way of the Sundance make-up and blowdown pipelines, as shown in Appendix B.
7. Existing coal burning and handling equipment will be retired, cleaned, and stored in place following the conversions. Ash handling equipment associated with ash production will be retired, cleaned and stored in place following the conversions. All such equipment will be decommissioned when the power plant is decommissioned.
8. TransAlta shall submit a construction progress report to the Commission in writing, once every six months, pursuant to Section 3 of the *Hydro and Electric Energy Regulation*. The first progress report shall be filed with the Commission six months from the date of issuance of this approval.
9. TransAlta shall notify the Commission within 30 days of completing the alterations to the power plant.
10. Unless otherwise authorized by the Commission, the alterations shall be completed by December 31, 2025.
11. The power plant may be operated as coal-fuelled units until alterations are complete.
12. TransAlta shall obtain Commission approval prior to making any material changes to the power plant or substantially varying the design and/or specifications of the power plant from what was stated in the application or from what the Commission has approved.

13. This approval is not transferable unless approved by the Commission.

Approval U2014-52 is rescinded.

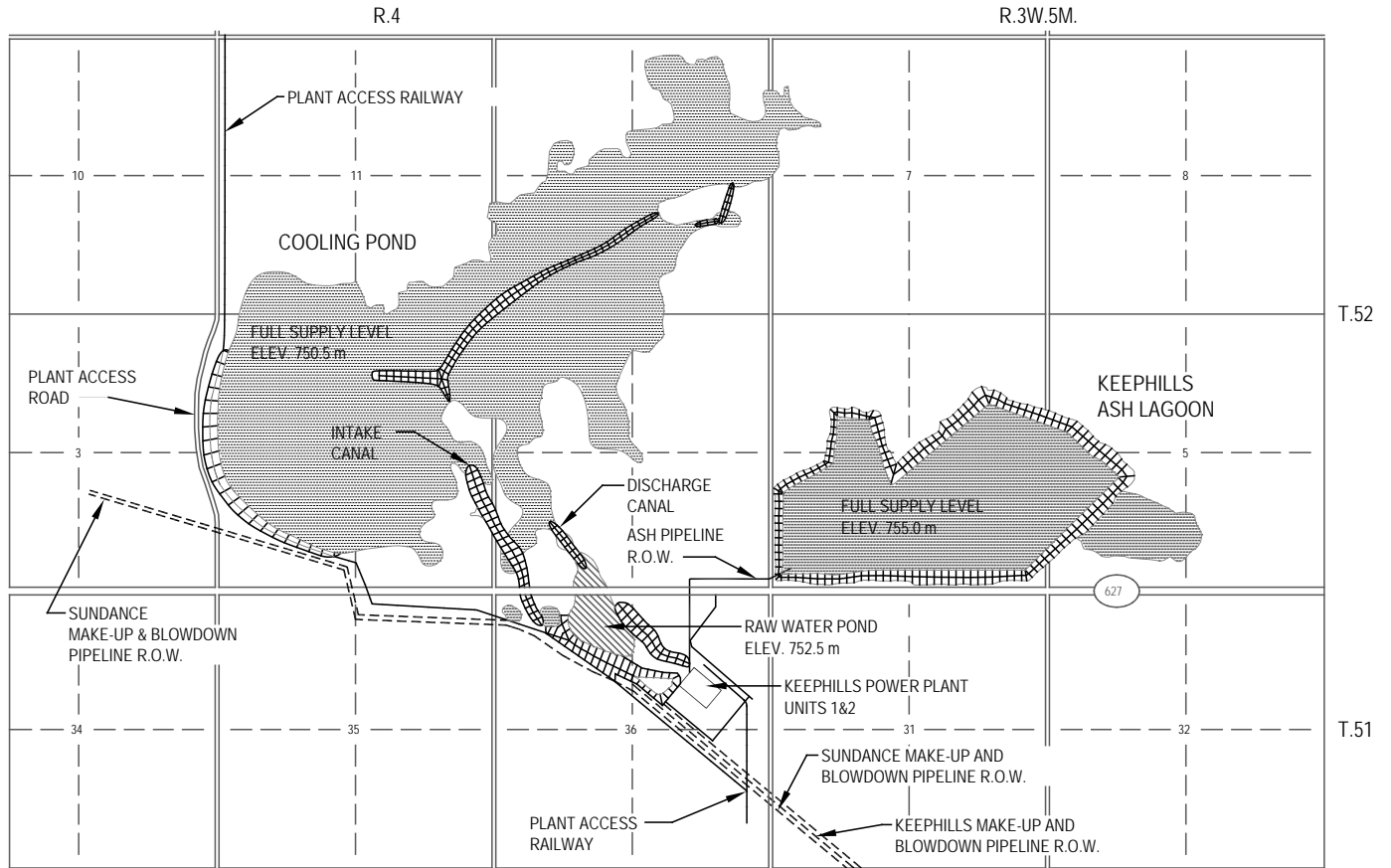
The Commission may cancel or suspend this approval, in whole or in part, in accordance with Section 41 of the *Hydro and Electric Energy Act* or may review this approval, in whole or in part, upon its own motion or upon an application by an interested party, in accordance with Section 10 of the *Alberta Utilities Commission Act*.

**Alberta Utilities Commission**

*(original signed by)*

Joanne Phillips  
Commission Member

## Appendix A



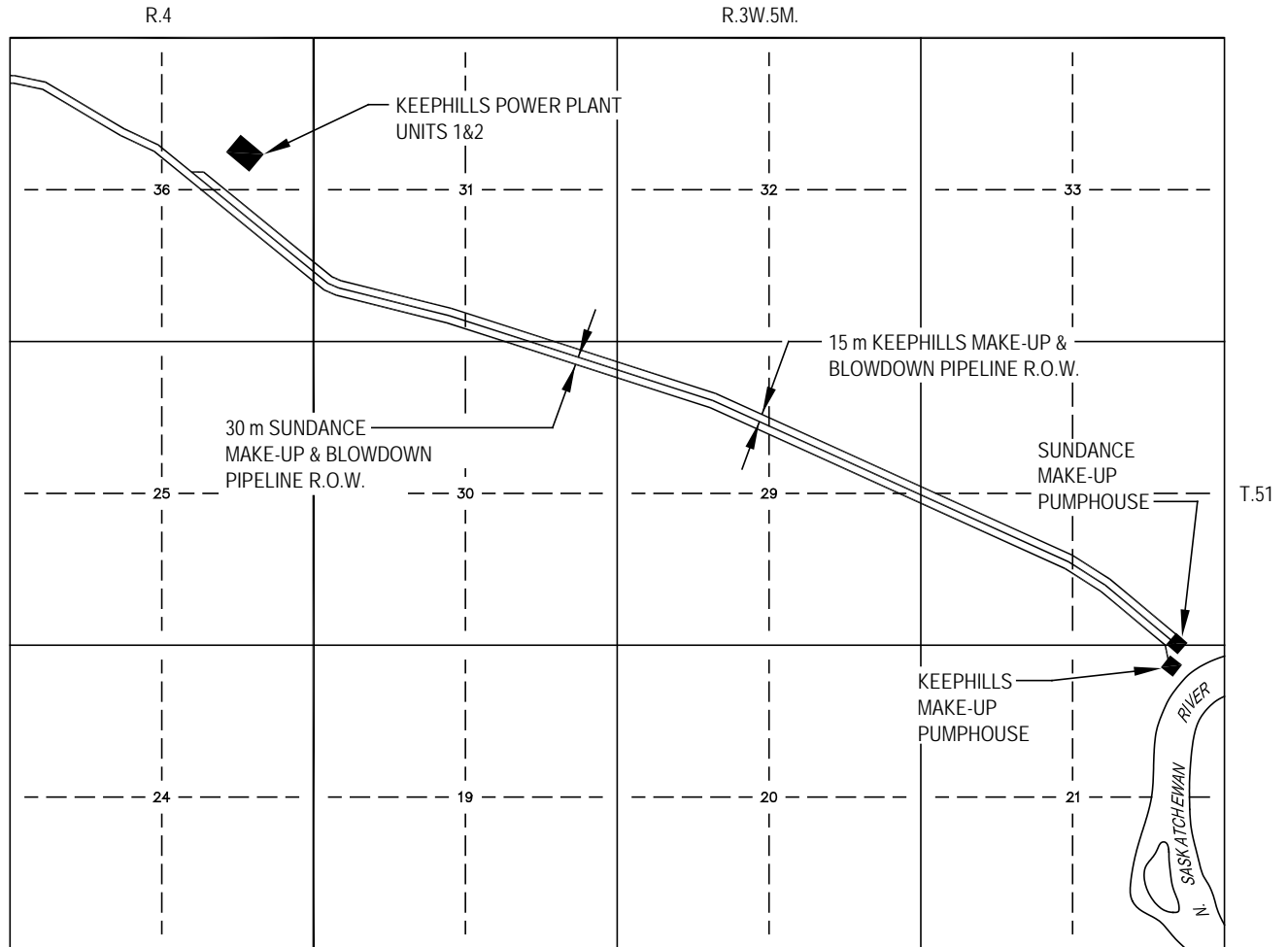
## KEEPHILLS POWER PLANT AND FACILITIES

APPENDIX A TO APPROVAL 23808-D02

PREVIOUS APPROVAL U2014-52



## Appendix B



### KEEPHILLS POWER PLANT AND FACILITIES

APPENDIX B TO APPROVAL 23808-D02

PREVIOUS APPROVAL U2014-52

