

VOID

No 55351

APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office July 22 1988
Returned to applicant for correction Sep 14 1988
Corrected application filed Oct 18 1988
Map filed Oct 18 1988

The applicant U.S. Department of Energy
Post Office Box 98518 of Las Vegas
Nevada 89193-8518

hereby make 1 application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated.

1. The source of the proposed appropriation is Underground

2. The amount of water applied for is 0.2 second-feet

(a) If stored in reservoir give number of acre-feet

3. The water to be used for Other use (See No. 12)

4. If use is for:

(a) Irrigation, state number of acres to be irrigated

(b) Stockwater, state number and kinds of animals to be watered

(c) Other use (describe fully under "No. 12. Remarks") See No. 12.

(d) Power:

(1) Horsepower developed

(2) Point of return of water to stream

5. The water is to be diverted from its source at the following point NE 1/4 of the SW 1/4 SEC. 19,

T.13S. R.49E. (MDB&M) at a distance of 13,298 feet from the SW corner

of SEC. 31, T.13S. R.49E. at bearing of S.08° 46' 06" W. (see attached map). Protracted.

6. Place of use NW 1/4 of NE 1/4, SEC. 36, T.12S. R.48E. (MDB&M). Water will

also be trucked from place of use to study sites at and near Yucca

Mountain (Drill Sites, Trenches, etc.), as well as sprinkled on dirt

roads for dust suppression. The study sites and roads are shown on a

color map that accompanies this application. Protracted.

7. Use will begin about 01/01 and end about 12/31, of each year.

8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and

specifications of your diversion or storage works.) See attached sheet, No. 8.

9. Estimated cost of works Existing = \$540,000; Planned = \$790,000

10. Estimated time required to construct works Five months. See No. 8 for details.
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use 5 years.

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

This application is made in support of the site characterization program for Yucca Mountain, Nevada. See the attached sheet (No. 12) for water use estimates during the first 7 years of the site characterization program (No. 12a). Included on that attachment (No. 12b) is a breakdown of the various uses to which the water will be applied.

By s/ illegible

Compared jm/nsm

P.O. Box 98518
Las Vegas, Nevada 89193-8518

Protested _____

OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed _____ cubic feet per second _____

Work must be prosecuted with reasonable diligence and be completed on or before _____

Proof of completion of work shall be filed on or before _____

Application of water to beneficial use shall be made on or before _____

Proof of the application of water to beneficial use shall be filed on or before _____

Map in support of proof of beneficial use shall be filed on or before _____

Completion of work filed _____ IN TESTIMONY WHEREOF, I _____

Proof of beneficial use filed _____ State Engineer of Nevada, have hereunto set my hand and the seal of my

Cultural map filed _____ office, this _____ day of _____,

Certificate No. _____ Issued _____ A.D. 19 _____

State Engineer

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No. 8 Well J-13 is an existing well on the NTS. The well is equipped with a pumping station (See specifications of well and pumping station on the drawing that accompanies this application). A 6.2-mile-long, 6-inch-diameter, poly-vinyl chloride pipe buried 2 feet below grade extends from the well to the border of the NTS.

A booster pumping station will be installed about halfway (based on elevation) between the well and the place of use (See specifications of pumping station on the drawing that accompanies this application). The existing pipeline will be extended approximately 4,100 feet to the place of use where it will be pumped into a 150,000-gallon water tank located in the NE 1/4, SEC. 36, T.12S, R.49E, and the water will be used throughout this same area.

12a. ESTIMATED ANNUAL WATER CONSUMPTION

YEAR 1	-	2.4 mill. gal.
YEAR 2	-	30.9 mill. gal.
YEAR 3	-	23.7 mill. gal.
YEAR 4	-	22.0 mill. gal.
YEAR 5	-	20.1 mill. gal.
YEAR 6	-	17.0 mill. gal.
YEAR 7	-	15.0 mill. gal.

No estimates available beyond 7 years.

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See 5-17-91 letter



12b. ESTIMATED WATER REQUIREMENTS FOR SITE CHARACTERIZATION
OF YUCCA MOUNTAIN

Activity	Gallons	Acre-feet
1. EXPLORATORY SHAFT FACILITY		
Site Preparation	6,700,000	20.5
ESF Surface Construction	2,100,000	6.4
ES-1 Collar	1,000,000	3
Sinking of ES-1	6,400,000	19.6
ES-2 Construction	2,600,000	8
Underground Construction	2,500,000	7.7
Testing/Construction	2,100,000	6.4
Dust Control	43,000,000	131.9
Contingency (10%)	6,640,000	20.4
2. SURFACE BASED TESTING		
Drilling (includes holes in unsaturated zone, water table, USW H-7, as well as geologic, volcanic, and calcite/silica holes, surface-facility holes, holes for Phase I and II of performance assessment, in situ stress holes, land holes for the southern tracer complex)	11,122,000	34
Testing (includes large- and small-plot rainfall simulation, ponding studies, and studies of in situ stress)	1,302,000	4
Dust Control	45,600,000	140
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1. Total for ESF	73,040,000	224
2. Total for Surface Based	58,024,000	178
GRAND TOTAL	131,064,000	402

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ENCLOSURE 1

MAP OF THE YUCCA MOUNTAIN AREA

ENCLOSURE 2

- Map to Accompany Application to Appropriate Water from Underground Source for Industrial Use.
- Drawing JS-025-055-C44.1, Exploratory Shaft Water System - Exist. J-13 Pump Station.
- Drawing JS-025-118-C14, Exploratory Shaft Facility Water System - Exist. J-13 Pump Station.
- Drawing JS-025-055-E39.1, Exploratory Shaft Water System - Exist. J-13 Pump Station.
- Drawing SK-025-6004-C1, Exploratory Shaft Facility Water System - Booster Pump Station.

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