

**NEW MEXICO OFFICE OF THE STATE ENGINEER
APPLICATION FOR PERMIT
TO CONSTRUCT AND OPERATE A DAM**

1. **NAME OF DAM:** _____

2. **DAM OWNER:**

Name: _____ Work Phone: _____

Title: _____ Home Phone: _____

Address: _____

City: _____ State: _____ Zip: _____

3. **PURPOSE:** _____

4. **HAZARD POTENTIAL CLASSIFICATION:** _____

5. **LOCATION:**

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: ____ Township: ____ Range: ____ N.M.P.M.
in _____ County.

or X = _____ feet, Y = _____ feet, N.M. State Plane Coordinate System
_____ Zone Datum of _____ in the _____ Grant.

B. Latitude in decimal degrees: _____

Longitude in decimal degrees: _____

C. On land owned by: _____

D. Source of Water Supply:

a. Name of Surface Watercourse: _____ Tributary of _____

b. Name of Groundwater Basin: _____

c. Name of Ditch or Spring (Off Channel Dams): _____

E. Distance to the nearest downstream City/Town (miles): _____

6. **DRAINAGE AREA, PRECIPITATION DATA AND SPILLWAY DESIGN FLOOD RESULTS:**

A. Drainage area: _____ acres and _____ square miles

B. 100-year, ____ hour precipitation: _____ inches (indicate critical storm)

C. Probable maximum precipitation (PMP), ____ hour storm: _____ inches (indicate critical storm)

D. Peak runoff into the reservoir from ____ % of the PMP: _____ cubic feet/second

E. Volume of runoff into the reservoir from ____ % of the PMP: _____ acre-feet

F. Routed peak outflow from ____ % of the PMP: _____ feet/second

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7. PROPERTIES OF DAM AND RESERVOIR:

- A. Dam length: _____ feet
- B. Crest width: _____ feet
- C. Base width: _____ feet
- D. Dam height: _____ feet
- E. Structural height: _____ feet
- F. Elevation of the dam crest: _____ feet
- G. Slope of upstream face: _____ horizontal to 1 vertical
- H. Slope of downstream face: _____ horizontal to 1 vertical
- I. Volume of dam: _____ cubic yards
- J. Type of dam: _____
- K. Dead storage capacity: _____ acre-feet
- L. Reservoir storage capacity: _____ acre-feet
- M. Maximum storage capacity: _____ acre-feet
- N. Spillway design flood water level elevation: _____ feet
- O. Reservoir surface area at reservoir storage capacity: _____ acres
- P. Stage/Area/Storage capacity (elevations at the outlet invert, spillway and dam crest plus others):

Elevation or depth above outlet (Feet)	Area of Water Surface, (Acres)	Storage Capacity (Acre Feet)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

8. PROPERTIES OF OUTLET CONDUIT:

- A. Outlet conduit is: _____ (give size and material)
- B. Length of conduit: _____ feet
- C. Slope of conduit: _____ percent
- D. Manning coefficient: _____
- E. Maximum discharge capacity (at dam crest): _____ cubic feet/second
- F. Elevation of upstream end of the invert of the outlet conduit: _____ feet
- G. Size, type and number of gates: _____
- H. Time to empty the reservoir: _____ hours or _____ days

OSE File Number: _____

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9. PROPERTIES OF SPILLWAY:

- A. Spillway is: _____ (give type and material)
- B. Location: _____
- C. Spillway crest elevation: _____ feet
- D. Freeboard: _____ feet
- E. Discharge coefficients: _____ (dependent on type)
- F. Effective length: _____ feet
- G. Discharge capacity (at the spillway design flood elevation): _____ cubic feet/second
- H. Maximum discharge capacity (at the dam crest): _____ cubic feet/second
- I. Residual freeboard: _____ feet

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

11. CONSTRUCTION DATES:

- Estimated date to begin construction: _____
- Estimated date to complete construction: _____

12. Dam will be constructed under the supervision of: _____
Engineer License No.

13. ACKNOWLEDGEMENT FOR THE DAM OWNER

I, _____ affirm that the foregoing statements are true to the best of my knowledge and belief. I fully understand the responsibility and liability related to dam ownership.

(Signature) (Date)

Subscribed and sworn to before me this _____ day of _____, 20____.

Notary Public

My commission expires _____ (SEAL)

OSE File Number: _____

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ACTION OF STATE ENGINEER

This application to construct and operate a dam is approved provided it is not exercised to the detriment of any others having prior, valid and existing rights to the use of waters of this stream system or groundwater basin and further provided that:

Witness my hand and seal this _____ day of _____, 20____.

State Engineer

By: _____

INSTRUCTIONS

This form shall be filed with original signatures and accompanied by construction drawings, specifications, design report, etc. and filing fee of \$25.00 for the application and plan review fee of \$2.00 per \$1000 of construction cost for dam and appurtenances. This form and supporting documentation shall be delivered to the attention of the OSE Dam Safety Bureau, P.O. Box 25102, Santa Fe, New Mexico 87504.

- Section 1 Dam name required
- Section 2 All information is required.
- Section 3 Purpose is required.
- Section 4 Hazard Potential Classification is required. Refer to 19.25.12.10 NMAC
- Section 5 Information for Items A through E required.
- Section 6 All information required is applicable.
- Section 7 All information required if applicable.
- Section 8 All information required if applicable. Part 8H: Flood control dams enter hours and storage dams enter days.
- Section 9 All information required if applicable.
- Section 10 Fill in blanks if additional information is necessary.
- Section 11 Information is required.
- Section 12 Information is required. Qualifications of the N.M. Professional Engineer with experience in dam design and construction are required (Subsection A of 19.25.12.13 NMAC).
- Section 13 Dam Owner's printed name and notarized signature are required.