U.S. Hydropower

Resource Assessment

New Mexico

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U.S. Hydropower Resource Assessment for New Mexico

**Prepared by:
Alison M. Conner
James E. Francfort**

**Project Manager:
Ben N. Rinehart**

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**Idaho National Engineering Laboratory
Renewable Energy Products Department
Lockheed Martin Idaho Technologies Company
Idaho Falls, Idaho 83415**

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ABSTRACT

The U.S. Department of Energy is developing an estimate of the undeveloped hydropower potential in the United States. The Hydropower Evaluation Software (HES) is a computer model that was developed by the Idaho National Engineering Laboratory for this purpose. HES measures the undeveloped hydropower resources available in the United States, using uniform criteria for measurement. The software was developed and tested using hydropower information and data provided by the Southwestern Power Administration. It is a menu-driven program that allows the personal computer user to assign environmental attributes to potential hydropower sites, calculate development suitability factors for each site based on the environmental attributes present, and generate reports based on these suitability factors. This report describes the resource assessment results for the State of New Mexico.

ACKNOWLEDGMENTS

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U.S. Hydropower Resource Assessment for New Mexico

INTRODUCTION

In June 1989, the U.S. Department of Energy initiated the development of a National Energy Strategy to identify the energy resources available to support the expanding demand for energy in the United States. Public hearings conducted as part of the strategy development process indicated that undeveloped hydropower resources were not well defined. As a result, the Department of Energy established an interagency Hydropower Resource Assessment Team to ascertain the undeveloped hydropower potential. In connection with these efforts by the Department of Energy, the Idaho National Engineering Laboratory designed the Hydropower Evaluation Software (HES), which has been used to perform a resource assessment of the undeveloped conventional hydropower potential in over 30 states. This report presents the results of the hydropower resource assessment for the State of New Mexico. Undeveloped pumped storage hydropower potential is not included.

The HES was developed as a tool to measure undeveloped hydropower potential regionally or by state. The software is not intended to provide precise development factors for individual sites, but to provide regional or state totals. Because the software was developed as a generic measurement tool encompassing national issues, regional and state totals must be considered judiciously; various local issues may skew undeveloped hydropower potential totals. The information for the resource assessment was compiled from the Federal Energy Regulatory Commission's Hydroelectric Power Resources Assessment database and several other sources. Refer to DOE/ID-10338, the *User's Manual* (Francfort, Matthews, Rinehart 1991) for the specifics of the software and to DOE/ID-10430.1, the *Status Report* (Conner, Francfort, Rinehart 1996) for an overview of all resource assessment activities to date.

Model Development

Hydropower Evaluation Software, both a probability-factor computer model and a database, is a menu-driven program that is intended to be user-friendly. Computer screens and report-generation capabilities were developed to meet the needs of users nationwide. The software uses environmental attribute data to generate an overall project environmental suitability factor (PESF) between 0.1 and 0.9, where 0.9 indicates the highest likelihood of development and 0.1 indicates the lowest likelihood of development. The suitability factors are dependent on the unique environmental attributes of each potential site. They reflect the considerations that (a) environmental concerns can make a potential site unacceptable, prohibiting its development (for a suitability factor of 0.1), or (b) if there are no environmental concerns, there is no negative effect on the likelihood of site development (for a suitability factor of 0.9). A combination of attributes can result in a lower suitability factor because multiple environmental considerations would reduce the likelihood that a site may be developed to its physical potential.

Model Goal

The goal of the HES is to assemble an accurate resource database of all sites with undeveloped hydropower potential in the United States for use as a planning tool to determine the viable national hydropower potential. Undeveloped hydropower potential is not limited to the development of new sites; it also includes the development of additional hydropower-generating capacity at sites that currently have hydropower, but are not developed to their full potential. This undeveloped hydropower potential is a source of nonpolluting, renewable energy available to meet the growing power needs of the United States. The HES should help make this goal obtainable and ensure a set of uniform criteria for national assessment.

Dam Status

The effects of environmental attributes vary by dam status. The dam status classifications used are as follows

- W = Developed hydropower site with current power generation, but the total hydropower potential has not been fully developed. Only the undeveloped hydropower potential is discussed in this report.
- W/O = Developed site without current power generation. The site has some type of developed impoundment or diversion structure, but no developed hydropower generating capability.
- U = Undeveloped site. The site does not have power generation capability nor a developed impoundment or diversion structure.

ASSESSMENT RESULTS

Summary Results

A total of 22 sites (Table 1) have been identified and assessed for their undeveloped hydropower potential. The HES results for individual site capacities range from 9 kilowatts (kW) to 11 megawatts (MW). The majority of

the sites (64%) have potential capacities of less than 1 MW (Figure 1).

The nonmodeled undeveloped hydropower potential total for New Mexico was identified as 90 MW. The HES results lowers this estimate about 61% to 35 MW. The greatest reduction in undeveloped hydropower potential, by MW, occurs at sites with no power generation capability, nor any type of structure (undeveloped site category). These sites have an HES-modeled undeveloped hydropower potential of 5 MW, a 26 MW reduction in the estimated undeveloped hydropower potential (Figure 2). The developed sites with power generation capability have the least percentage decrease in modeled undeveloped potential capacity. The unadjusted potential for the sites with power is 11 MW, and the modeled capacity is 6 MW, a 45% decrease in capacity (Figure 2). Figure 3 illustrates that the undeveloped sites have the smallest HES-modeled average capacity per site (0.6 MW), and the developed sites with power have the highest HES-modeled average capacity per site (3 MW). Figures 4 and 5 show examples of two sites with undeveloped hydropower potential in New Mexico.

The 22 identified sites are located within 7 major river basins. The number of sites per major river basin ranges from 1 in the Rio Penasco River Basin, to 7 in the Upper Rio Grande River Basin (Figure 6). The Upper Rio Grande River Basin has the most undeveloped hydropower potential (23 MW) of the New Mexico river basins (Figure 7). It should be noted that about one-half of 23 MW of undeveloped hydropower potential is located at one site.

Table 1. Undeveloped hydropower potential summaries for New Mexico. The table contains the nonmodeled undeveloped nameplate potential and the HES-modeled undeveloped hydropower potential totals.

	Nameplate potential		HES-modeled potential
	Number of projects	(MW)	(MW)
With Power	2	11.0	5.5
W/O Power	12	47.9	24.3
Undeveloped	8	31.3	5.0
State Total	22	90.2	34.8

Figure 1. Number of sites, by capacity groups, with HES-modeled undeveloped hydropower potential.

Figure 2. The nonmodeled and HES-modeled undeveloped hydropower potential.

Figure 3. The number of sites with undeveloped hydropower potential and the total megawatts of HES-modeled undeveloped hydropower potential.

Figure 4. The Conchas Dam is an example of a developed site in New Mexico without current hydropower generation. It is located on the Canadian River near Tucumcari, New Mexico, and has the undeveloped hydropower potential of 2,078 kW.

Figure 5. The Ute Dam is another example of a developed site in New Mexico without current hydropower generation. It is located on the Canadian River near Tucumcari, New Mexico, and has the undeveloped hydropower potential of 2,640 kW.

Figure 6. Number of sites with undeveloped hydropower potential in the New Mexico river basins.

Figure 7. Megawatts of HES-modeled undeveloped hydropower potential in the New Mexico river basins.

DETAILED RESULTS

The appendices contain, in the form of HES-generated reports, detailed information about the undeveloped hydropower potential in New Mexico. The appendices contain the following information:

Appendix A summarizes the undeveloped hydropower potential by dam status groups. The number of sites, nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential is provided based on the dam status.

Appendix B provides the hydropower resource assessment by river basin, which includes the project number, project name, stream name, dam status, nonmodeled undeveloped hydropower potential, and the HES-modeled undeveloped hydropower potential for each of the individual sites. Subtotals are provided for each river basin.

Appendix C provides the hydropower resource assessment by FERC number, which includes the project numbers, plant name, stream name, if a site is Federally owned, nonmodeled undeveloped hydropower potential, and HES-modeled undeveloped hydropower potential. The sites are grouped by dam status.

Appendix D contains a resource database list for each of the 22 sites in New Mexico. Information includes plant name, stream, state, county, river basin and owner names, project number, nameplate and HES-modeled undeveloped hydropower potential, the unit and plant types, dam status, latitude, longitude, and the environmental factors that the HES uses to determine the project environmental suitability factor.

OBTAINING INDIVIDUAL STATE INFORMATION

Additional copies of the hydropower resource assessment results for individual states are available and can be obtained by writing or

calling the authors or the National Technical Information Service (NTIS).

Telephone Orders—(703) 487-4650. NTIS sales desk and customer services are available between 8:30 a.m. and 5:00 p.m., EST.

Fax—(703) 321-8547. Customers may fax their orders to NTIS. These orders may be charged to a NTIS deposit account, American Express, VISA, or MasterCard.

Mail Orders—Mail orders should be sent to National Technical Information Service, Document Sales, 5285 Port Royal Road, Springfield, VA 22161. Call the sales desk for prices before placing an order.

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ual attention. The items ordered are delivered by first call mail. Call NTIS for information on rush order service for computer products.

For Help in Tracing an Order—Call (703) 487-4650 and request the customer service option.

ADDITIONAL HYDROPOWER EVALUATION SOFTWARE INFORMATION

Additional information concerning the HES can be obtained by contacting Ben Rinehart or Jim Francfort at the addresses provided below. Copies of the software and the User's Manual may also be obtained from these individuals.

Ben Rinehart, Project Manager
Idaho National Engineering and Environmental Laboratory^a
P.O. Box 1625, MS 3830
Idaho Falls, ID 83415-3830
(208) 526-1002

Jim Francfort
Idaho National Engineering and Environmental Laboratory
P.O. Box 1625, MS 3830
Idaho Falls, ID 83415-3830
(208) 526-6787

Information concerning the State of New Mexico's involvement with the resource assessment or about the identified sites may be obtained by contacting:

Michael McDiarmid, P.E.
State of New Mexico
Energy, Minerals & Natural Resources
Department
P.O. Box 6429
Santa Fe, NM 87505-5472
(505) 827-782

a. This work was performed under contract at the Idaho National Engineering Laboratory, with assistance from the State of New Mexico. In January 1997, the name of the INEL was changed to the Idaho National Engineering and Environmental Laboratory (INEEL). INEL will be used on the title page until a new INEEL logo and cover is designed. INEEL will be used throughout the text of the document, except where use of INEL is historically important (for example, p. 1).

REFERENCES

Conner, A. M., J. E. Francfort, and B. N. Rinehart, 1996, *Uniform Criteria for U.S. Hydropower Resource Assessment, Hydropower Evaluation Software Status Report-II*, DOE/ID 10430.1, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Francfort, J. E., S. D. Matthews, and B. N. Rinehart, 1991, *Hydropower Evaluation Software User's Manual*, DOE/ID-10338, Idaho National Engineering Laboratory, Idaho Falls, Idaho.

Appendix A

Summary Report

DATE: 02/04/97

HYDROPOWER CAPACITY SUMMARY

State	Category	Number of Projects	Name Plate Capacity (KW)	HES Adjusted Capacity (KW)
NM	With Power	2	10985	5492.50
	W/O Power	12	47889	24267.30
	Undeveloped	8	31252	5014.80
	STATE TOTAL	22	90126	34774.60
TOTALS	With Power	2	10985	5492.50
	W/O Power	12	47889	24267.30
	Undeveloped	8	31252	5014.80
GRAND TOTAL		22	90126	34774.60

Appendix B
River Basins Report

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/Stream	Dam Name Plate	Stat Rating (KW)	PESE	PESE * KW
** River Basin ANIMAS					
NM010	AZTEC				
NM011	CEDAR HILL				
	ANIMAS RIVER				
		U	200.00	0.50	100.00
** River Basin LOWER ARKANSAS RIVER BASIN					
NM004	EAGLE NEST				
	CIMARRON R				
		U	965.00	0.10	96.50
09053	CONCHAS				
	CANADIAN R				
		W	2078.00	0.50	1039.00
NM006	UTE RESERVOIR				
	CANADIAN R				
		WO	2640.00	0.50	1320.00
03982	EAGLE NEST				
	CIMARRON R, CANADIAN R				
		WO	965.00	0.50	482.50
** Subtotal **					
			1200.00		200.00
** River Basin LOWER RIO GRANDE RIVER BAS					
03761	MCWILLIAN				
	PECOS R				
		U	2000.00	0.25	500.00
09050	SANTA ROSA (LOS ESTEROS)				
	PECOS R				
		WO	93.00	0.10	9.30
** Subtotal **					
			2093.00		509.30
** River Basin PECOS RIVER BAS					
NM002	AVATON DAM				
	PECOS R				
		WO	1100.00	0.75	825.00
NM003	BRANTLEY				
	PECOS R				
		WO	1396.00	0.50	698.00
08366	SUMNER				
	PECOS R				
		WO	824.00	0.50	412.00

HYDROPOWER RESOURCE ASSESSMENT BY RIVER BASIN

FERC Number	Plant Name/ Stream	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **					
			3320.00		1935.00
** River Basin RIO GRANDE					
NM005	ELEPHANT BUTTE RIO GRANDE	W	8907.00	0.50	4453.50
NM012	BERNALILLO BERNALILLO CANAL	WO	150.00	0.90	135.00
NM013	BELEN NEW BELEN WASTEWAY	WO	100.00	0.75	75.00
** Subtotal **					
			9157.00		4663.50
** River Basin RIO PENASCO					
NM014	HOPE DIVERSION RIO PENASCO	U	1887.00	0.90	1698.30
** Subtotal **					
			1887.00		1698.30
** River Basin UPPER RIO GRANDE RIVER BAS					
NM009	WILLOW CREEK 4 WILLOW CR,RIO CHAMA	U	11500.00	0.10	1150.00
NM008	WILLOW CREEK 3 WILLOW CR,RIO CHAMA	U	8000.00	0.10	800.00
NM007	WILLOW CREEK 1 WILLOW CR,RIO CHAMA	U	5700.00	0.10	570.00
10980	CABALLO RIO GRANDE	WO	13630.00	0.50	6815.00
10890	COCHITI RIO GRANDE	WO	22905.00	0.50	11452.50
NM001	AMALIA (COSTILLA) COSTILLA CR,RIO GRANDE	WO	86.00	0.50	43.00
10979	HERON WILLOW CR,RIO CHAMA	WO	4000.00	0.50	2000.00
** Subtotal **					
			65821.00		22830.50
*** Total ***					
			90126.00		34774.60

Appendix C
New Mexico Sites List

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 03761 MCMILLAN PECOS R	NM	U	2000.00	0.25	500.00
** Subtotal **			2000.00		500.00
** FERC Number NM004 EAGLE NEST CIMARRON R	NM	U	965.00	0.10	96.50
** Subtotal **			965.00		96.50
** FERC Number NM007 WILLOW CREEK 1 WILLOW CR,RIO CHAMA	NM	U	5700.00	0.10	570.00
** Subtotal **			5700.00		570.00
** FERC Number NM008 WILLOW CREEK 3 WILLOW CR,RIO CHAMA	NM	U	8000.00	0.10	800.00
** Subtotal **			8000.00		800.00
** FERC Number NM009 WILLOW CREEK 4 WILLOW CR,RIO CHAMA	NM	U	11500.00	0.10	1150.00
** Subtotal **			11500.00		1150.00
** FERC Number NM010 AZTEC ANIMAS RIVER	NM	U	200.00	0.50	100.00
** Subtotal **			200.00		100.00
** FERC Number NM011 CEDAR HILL ANIMAS RIVER	NM	U	1000.00	0.10	100.00

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **		1000.00		100.00
** FERC Number NM014 HOPE DIVERSION RIO PENASCO	NM U	1887.00	0.90	1698.30
** Subtotal **		1887.00		1698.30
** FERC Number 09053 CONCHAS CANADIAN R	NM W	2078.00	0.50	1039.00
** Subtotal **		2078.00		1039.00
** FERC Number NM005 ELEPHANT BUTTE RIO GRANDE	NM W	8907.00	0.50	4453.50
** Subtotal **		8907.00		4453.50
** FERC Number 03982 EAGLE NEST CIMARRON R, CANADIAN R	NM WO	965.00	0.50	482.50
** Subtotal **		965.00		482.50
** FERC Number 08366 SUMNER PECOS R	NM WO	824.00	0.50	412.00
** Subtotal **		824.00		412.00
** FERC Number 09050 SANTA ROSA (LOS ESTEROS) PECOS R	NM WO	93.00	0.10	9.30
** Subtotal **		93.00		9.30

HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	ST	Dam Stat	Name Plate Rating (KW)	PESF	PESF * KW
** FERC Number 10890 COCHITI RIO GRANDE	NM	WO	22905.00	0.50	11452.50
** Subtotal **			22905.00		11452.50
** FERC Number 10979 HERON WILLOW CR,RIO CHAMA	NM	WO	4000.00	0.50	2000.00
** Subtotal **			4000.00		2000.00
** FERC Number 10980 CABALLO RIO GRANDE	NM	WO	13630.00	0.50	6815.00
** Subtotal **			13630.00		6815.00
** FERC Number NM001 AMALIA (COSTILLA) COSTILLA CR,RIO GRANDE	NM	WO	86.00	0.50	43.00
** Subtotal **			86.00		43.00
** FERC Number NM002 AVALON DAM PECOS R	NM	WO	1100.00	0.75	825.00
** Subtotal **			1100.00		825.00
** FERC Number NM003 BRANTLEY PECOS R	NM	WO	1396.00	0.50	698.00
** Subtotal **			1396.00		698.00
** FERC Number NM006 UTE RESERVOIR CANADIAN R	NM	WO	2640.00	0.50	1320.00

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HYDROPOWER RESOURCE ASSESSMENT BY FERC NUMBER

Plant Name/ Stream	Dam ST Stat	Name Plate Rating (KW)	PESF	PESF * KW
** Subtotal **		2640.00		1320.00
** FERC Number NM012 BERNALILLO BERNALILLO CANAL	NM WO	150.00	0.90	135.00
** Subtotal **		150.00		135.00
** FERC Number NM013 BELEN NEW BELEN WASTEWAY	NM WO	100.00	0.75	75.00
** Subtotal **		100.00		75.00
*** Total ***		90126.00		34774.60

Appendix D
Individual Resource Database List

RESOURCE DATABASE LISTING

DATE: 02/04/97

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FERC Number	Plant Name	Stream	State Name
03761	MCMILLAN	PECOS R	NM

County Name	River Basin
EDDY	LOWER RIO GRANDE RIVER BAS

Class	Owner Name
R	SEQUOIA ENERGY CORP

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2000.00	0.25	500.00	5000.00	1250

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3236.00	Longitude	10421.00
C	STG	XX	U				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.50
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.25	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

RESOURCE DATABASE LISTING

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FERC Number	Plant Name	Stream	State Name
03982	EAGLE NEST	CIMARRON R,CANADIAN R	NM

County Name	River Basin
COLFAX	LOWER ARKANSAS RIVER BASIN

Class		Owner Name		
M		C.S. CATTLE COMPANY		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
965.00	0.50	482.50	2704.00	1352

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3632.00	Longitude	10513.00
C	STG	XX	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

R E S O U R C E D A T A B A S E L I S T I N G

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FERC Number	Plant Name	Stream	State Name
08366	SUMNER	PECOS R	NM

County Name	River Basin
DE BACA	PECOS RIVER BAS

Class	Owner Name
R	PRODEK, INC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
824.00	0.50	412.00	2400.00	1200

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	ROR	XX	WO	3437.00	10423.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

RESOURCE DATABASE LISTING

DATE: 02/04/97

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FERC Number	Plant Name	Stream	State Name
09050	SANTA ROSA(LOS ESTEROS)	PECOS R	NM

County Name	River Basin
GUADALUPE	LOWER RIO GRANDE RIVER BAS

Class	Owner Name
R	SANTA ROSA ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
93.00	0.10	9.30	200.00	20

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude
C	ROR	XX	WO	3502.00 10441.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location	Y	0.75	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103	Y	0.10
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
09053	CONCHAS	CANADIAN R	NM

County Name	River Basin
SAN MIGUEL	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
R	TUCUMCARI ASSOC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2078.00	0.50	1039.00	5900.00	2950

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	STG	XX	W	3524.00	10411.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104	Y	0.75
Geologic Value	Y	0.90	Federal Land Code 105		0.90
Historic Value	Y	0.75	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10890	COCHITI	RIO GRANDE	NM

County Name	River Basin
SANDOVAL	UPPER RIO GRANDE RIVER BAS

Class	Owner Name
R	LB INDUSTRIES, INC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
22905.00	0.50	11452.50	180000.00	90000

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude
C	STG	XX	WO	3534.00 10620.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10979	HERON	WILLOW CR,RIO CHAMA	NM

County Name	River Basin
RIO ARRIBA	UPPER RIO GRANDE RIVER BAS

Class		Owner Name		
R		L.B.INDUSTRIES		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
4000.00	0.50	2000.00	7850.00	3925
Unit Type	Plant Type	Project Status	Dam Status	Latitude 3640.00 Longitude 10643.00
C	STG	PA	WO	

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
10980	CABALLO	RIO GRANDE	NM

County Name	River Basin
SIERRA	UPPER RIO GRANDE RIVER BAS

Class		Owner Name		
R		L.B.INDUSTRIES, INC		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
13630.00	0.50	6815.00	68000.00	34000
Unit Type	Plant Type	Project Status	Dam Status	Latitude 3254.00 Longitude 10717.00
C	ROR	PA	WO	

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104	Y	0.75
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM001	AMALIA (COSTILLA)	COSTILLA CR,RIO GRANDE	NM

County Name	River Basin
TAOS	UPPER RIO GRANDE RIVER BAS

Class	Owner Name
C	RIO COSTILLA COOP. LIVESTOCK ASSOC.

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
86.00	0.50	43.00	610.00	305

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	STG	XX	WO	3652.00	10517.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.50	Wildlife Value	Y	0.75
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value	Y	0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM002	AVALON DAM	PECOS R	NM

County Name	River Basin
EDDY	PECOS RIVER BAS

Class	Owner Name
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F	BUREAU OF RECLAMATION
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1100.00	0.75	825.00	2900.00	2175

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3229.00	Longitude	10415.00
C	STG		WO				

<u>Factor</u>	<u>Exist</u>	<u>Prob</u>	<u>Factor</u>	<u>Exist</u>	<u>Prob</u>
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Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish	Y	0.75
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198		0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
NM003	BRANTLEY	PECOS R	NM

County Name	River Basin
EDDY	PECOS RIVER BAS

Class	Owner Name
F	BUREAU OF RECLAMATION

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1396.00	0.50	698.00	4390.00	2195

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3232.00	Longitude	10416.00
C	STG		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM004	EAGLE NEST	CIMARRON R	NM

County Name	River Basin
COLFAX	LOWER ARKANSAS RIVER BASIN

Class	Owner Name
R	C.S. CATTLE COMPANY

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
965.00	0.10	96.50	2700.00	270

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3632.00	Longitude	10514.00
C	STG		U				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.25	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.25	Federal Land Code 108		0.90
Scenic Value	Y	0.50	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM005	ELEPHANT BUTTE	RIO GRANDE	NM

County Name	River Basin
SIERRA	RIO GRANDE

Class	Owner Name
F	BUREAU OF RECLAMATION

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
8907.00	0.50	4453.50	4143.00	2071.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C	STG		W	3309.00	10711.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.75	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM006	UTE RESERVOIR	CANADIAN R	NM

County Name	River Basin
QUAY	LOWER ARKANSAS RIVER BASIN

Class		Owner Name		
F		BUREAU OF RECLAMATION		
Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
2640.00	0.50	1320.00	3800.00	1900

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3521.00	Longitude	10326.00
C	STG		WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.75
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM007	WILLOW CREEK 1	WILLOW CR,RIO CHAMA	NM

County Name	River Basin
RIO ARRIBA	UPPER RIO GRANDE RIVER BAS

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
5700.00	0.10	570.00	24000.00	2400

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3650.00
C	STG		U	Longitude	10638.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.10	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM008	WILLOW CREEK 3	WILLOW CR,RIO CHAMA	NM

County Name	River Basin
RIO ARRIBA	UPPER RIO GRANDE RIVER BAS

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
8000.00	0.10	800.00	58000.00	5800

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3644.00 Longitude 10637.00
C	STG		U		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.10	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM009	WILLOW CREEK 4	WILLOW CR,RIO CHAMA	NM

County Name	River Basin
RIO ARRIBA	UPPER RIO GRANDE RIVER BAS

Class	Owner Name
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Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
11500.00	0.10	1150.00	78000.00	7800

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3644.00
C	STG		U	Longitude	10637.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection	Y	0.10	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198		0.90
Scenic Value		0.90			

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FERC Number	Plant Name	Stream	State Name
NM010	AZTEC	ANIMAS RIVER	NM

County Name	River Basin
SAN JUAN	ANIMAS

Class	Owner Name
M	CITY OF AZTEC

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
200.00	0.50	100.00	1685.00	842.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude
C	ROR	ZZ	U	3649.00 10801.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.50
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM011	CEDAR HILL	ANIMAS RIVER	NM

County Name	River Basin
SAN JUAN	ANIMAS

Class	Owner Name
M	CITY OF FARMINGTON

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1000.00	0.10	100.00	8425.00	842.50

Unit Type	Plant Type	Project Status	Dam Status	Latitude	Longitude
C		XX	U	3656.00	10754.00

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish	Y	0.50
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value	Y	0.25	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.25	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM012	BERNALILLO	BERNALILLO CANAL	NM

County Name	River Basin
BERNALILLO	RIO GRANDE

Class	Owner Name
C	MIDDLE RIO GRANDE CONSERVANCY DISTR

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
150.00	0.90	135.00	886.00	797.40

Unit Type	Plant Type	Project Status	Dam Status	Latitude Longitude	3520.00 10631.00
C	DIV	XX	WO		

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value		0.90	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM013	BELEN	NEW BELEN WASTEWAY	NM

County Name	River Basin
VALENCIA	RIO GRANDE

Class	Owner Name
C	MIDDLE RIO GRANDE CONSERVANCY DIST.

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
100.00	0.75	75.00	525.00	393.75

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3438.00	Longitude	10647.00
C	ROR	XX	WO				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or Upstream/Downstream			Threatened/Endangered Fish		0.90
Wild/Scenic Location		0.90	Threatened/Endangered Wildlife		0.90
Cultural Value		0.90	Federal Land Code 103		0.90
Fish Presence Value		0.90	Federal Land Code 104		0.90
Geologic Value		0.90	Federal Land Code 105		0.90
Historic Value		0.90	Federal Land Code 106		0.90
Other Value		0.90	Federal Land Code 107		0.90
Recreation Value	Y	0.75	Federal Land Code 108		0.90
Scenic Value		0.90	Federal Land Code 198		0.90

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FERC Number	Plant Name	Stream	State Name
NM014	HOPE DIVERSION	RIO PENASCO	NM

County Name	River Basin
CHAVEZ	RIO PENASCO

Class	Owner Name
C	HOPE WATER USERS ASSOCIATION

Name Plate Rating (KW)	PESF	PESF*KW	Annual Energy Rating (MWh)	PESF Annual Energy Rating (MWh)
1887.00	0.90	1698.30	11812.00	10630.80

Unit Type	Plant Type	Project Status	Dam Status	Latitude	3250.00	Longitude	10456.00
C	DIV	XX	U				

Factor	Exist	Prob	Factor	Exist	Prob
Wild/Scenic Protection		0.90	Wildlife Value		0.90
Wild/Scenic Tributary or			Threatened/Endangered Fish		0.90
Upstream/Downstream			Threatened/Endangered Wildlife		0.90
Wild/Scenic Location		0.90	Federal Land Code 103		0.90
Cultural Value		0.90	Federal Land Code 104		0.90
Fish Presence Value		0.90	Federal Land Code 105		0.90
Geologic Value		0.90	Federal Land Code 106		0.90
Historic Value		0.90	Federal Land Code 107		0.90
Other Value		0.90	Federal Land Code 108		0.90
Recreation Value		0.90	Federal Land Code 198		0.90
Scenic Value		0.90			