## EXHIBIT B.

# PERTINENT DATA OF NEARBY PROJECTS

#### HOOVER DAM AND LAKE MEAD **COLORADO RIVER** PERTINENT DATA

#### COLORADO RIVER DRAINAGE AREAS

	Drainage /	Areas (sq mi)1
Location	Total	Incremental
Glen Canyon Dam	107,740	
Lee Ferry?	108,040	300
Hoover Dam	167,740	59,700
Davis Dam	169,340	1,600
Parker Dam	178,740	9,400
Imperial Dam	184,540	5,800
Southerly		·
International Boundary	242,740	58,200

#### Notes:

- 1. USGS Water Resources Data less 3,959 square miles in Great Divide Basin.
- 2. Compact Point

#### REPRESENTATIVE STREAMFLOWS AND VOLUMES AT HOOVER DAM

Mean Annual Natural Runoff (1906-80)	15,135,000 ac-ft
Maximum Mean Daily Recorded Inflow <sup>1</sup>	220,000 cfs
Standard Project Rain Flood	
Maximum Mean Daily Inflow	112,000 cfs
Total Volume	1,079,000 ac-ft
Probable Maximum Rain Flood	
Maximum Mean Daily Inflow	194.600 cfs
Total Volume	
Probable Maximum Snowmelt Flood	
Maximum Month	14,800,000 ac-ft
Total Volume, Jan-Aug	25.900.000 ac-ft

#### NOTES:

<sup>1</sup>Colorado River near Grand Canyon, June 19, 1921.

#### DESCRIPTIVE DATA

#### DAM

Concrete Gravi	ity - Arch
stion	
evation	
Height	
th	
h	
Above Maximum	
ood Pool	3 ft
ood Pool	

	SPILLWAY	
Description	Two side-channel, gated spillways discha 50-ft dia, concrete lined tunnel through all on each side.	
<b>Total Crest</b>	Length	800 fr
Gates		
Description	<ul> <li>Four floating drum gates on each spillwater</li> <li>filling float chambers.</li> </ul>	y activated by
Length, Ea	ech	100 f
Maximum	Height	16 f

#### **POWERPLANT**

Operating Head	440 to 590 ft
Number of Units	
Capacity (1980 Configuration)	1345 MW
Penstocks' Two 30-ft dia, steel conduit through	igh concrete lined
tunnels exil: abutment,	-

#### **OUTLETS AND POWER PENSTOCKS**

intak <del>o</del> s	
Description	Four towers, two near each abutment, one each for
	river outlets and power penstocks.
Sill Elevation	onslower 895 ft
	upper 1045 ft
Gates	Two 32-ft dia, gates in each tower

#### RIVER OUTLETS

Conduits Two 30-ft dia, steel conduits in concrete	inea tunneis, one
on each side <sup>1</sup> .	
Valves Four 72-inch dia, needle valves on each co	nduit, each with an
emergency ring-follower type gate imme-	diately upstream.
Centerline Elevation of Valves (Nevada)	653.88 ft
	652 92 ft

#### CANYON WALL OUTLETS

Conduit Two 30-ft dia. steel conduits in 37-ft dia, concrete lined tunnels, one through each abutment<sup>1</sup>. Valves Two 84-inch diameter needle valves on each penstock, each w/an emergency ring-follower type gate immediately upstream.

#### NOTES:

130-8 dia, conduits used for both power penetholis and firer and can; -- wall releases.

#### AREA, STORAGE AND DISCHARGES AT CHITCOAL POOL ELEVATIONS

			:	Storages (1000	ac-ft)		Maximum Discharge (cfs)						
	_				Below	Maximum	Canyon	•	Spil	lway			
Point	Elevation (ft)	Area (1000 ac)	Total <sup>2</sup> Active	Incremental Active	Maximum Design Pool	Power Plant <sup>a</sup>	Wall Outlets <sup>4</sup>	River Outlets <sup>4</sup>	Gates Up	Gates Down			
Top of Dam	1232	- (	_	_	_	_	_		_	_			
Maximum Design Flood Pool	1229	162.7	27377	340	0	_	16000	28500	65000°	335000			
Spillway Discharge @ 40,000 cfs Channel Capacity	1226.9	162±	27037	878	340	33500	16000	28400	40000	292000			
Top of Raised Spillway Gates	1221.4	157.9	26159	282	1218	34000	16000	28100	0	184000			
Minimum Required Flood Control Pool	1219.6	157±	25877	2169	1500	34100	16000	28300	_	154000			
Permanent Spillway Crest	1205.4	148±	23708	1681	3669	35200	15900	27900		0			
Maximum Required Flood Control Pool	1193.8	140±	22027	12003	5350	35700	15800	27500	_	_			
Minimum Power Pool	1083	83±	10024	10024	17353	38000	14300	24500					
Dead Storage	895	29±	2378		27377	_	0	0	_	_			

Elevations refer to mean sea level datum.

Exclusive of dead storage except as indicated.

31980 configuration.

4With all turbines operating, sGates designed to release inflow to 400,000 cfs.

#### EXHIBIT B

## DAVIS DAM AND LAKE MOHAVE COLORADO RIVER, NEVADA-ARIZONA

#### PERTINENT DATA

Stream sy	rstem lower Colorado River on date January 1950
Tota Acti	Lake Mohave l capacity to elevation 647 feet (Ac-Ft)
Hydr Top Maxi Cres Cres	.s of Dam       200         ctural height (Feet)       140         aulic height (Feet)       50         width (Feet)       1,400         t length (Feet)       1,600         t elevation (Feet)       655         l volume of dam (Cu-Yd)       3,642,000
Elev Cres	: Concrete ogee weir, controlled by three 50- by 50-foot fixed wheel gates. ation, top of gates (feet)
	rks : Two 22- by 19-foot tainter gates, one on each side of spill- way section. city at elevation 610 feet (CFS)
capa	ore, as erevaction or rece (erb)

#### EXHIBIT B

## PARKER DAM AND LAKE HAVASU COLORADO RIVER, CALIFORNIA-ARIZONA

#### PERTINENT DATA

	of dam Concrete arch n system lower Colorado River
	etion date July 1938
T A	voir
S H T M C C	sions of Dam       320         tructural height (Feet)       75         top width (Feet)       39         taximum base width (Feet)       100         trest length (Feet)       856         trest elevation (Feet)       455         total volume of dam (Cu-Yd)       380,000
E C	yay  ype: Overflow section at center of dam controlled by five 50- by 50-foot Stoney gates.  levation, top of gates (feet)
T	Works  Ype: Four 22-foot-diameter steel penstocks through right abutment, each controlled by one 22- by 35-foot fixed wheel gate.  apacity at elevation 450 feet (CFS)

### EXHIBIT B

#### PAINTED ROCK DAM AND RESERVOIR MARICOPA COUNTY, ARIZONA PERTINENT DATA

	Completed																	
Stream Syste	m	A		 	٠	•	•	٠	-	•			•	-	•	•	٠	Gila Rive
	ea (Gila River Basin excluding Willcox a										sq. mi.							50,80
											•							
leservoir Eleva	tion																	
Licva	Streambed at Dam										ft., msi							52
	Spillway Crest										ft., msl							66
	Spillway Design Surcharge Level (Max										ft., msl				:			696
	Top of Dam										ft., msl	-	٠	•	•	٠	•	70
Area	10p 01 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•			•	•	•	•	•	•	10., 11201	•	٠	•	•	٠	•	,,
	Spillway Crest										acres							51,40
	Spillway Design Surcharge Level (Max										acres		_		Ċ	-	Ċ	81,60
	Top of Dam				<i>.</i>						acres							90,0
Capac	rity, gross																	,
	Spillway Crest (Flood Control)										ac-ft							2,492,0
	Spillway Design Surcharge Level (Max.	. Wat	ter S	urfa	ce)						ac-ft							4,834,0
	Top of Dam										ac-ft							5,575,00
	Allowance for Silting (Sedimentation)										ac-ft							200,00
am (Rolled																		
	t Above Original Streambed										ft., msl			-				1
	Length										feet	٠	٠					4,4
	Width				•	٠	•			•	feet	•	-	•				
	n Freeboard	٠		٠		٠					feet	•		٠		٠		1
Saddie	Dike (Right)										6 .							_
	Crest Length										feet	٠	•	•	•	•		20
0.44	Height	•		٠	٠	٠	٠	٠	•	٠	feet	•	•	٠	٠	•	•	
Saddie	Dike (Left)										<i>c</i> ,							-
	Crest Length										feet	٠	٠		•	•	-	5
	Height	٠		•	•		•	•	٠	٠	feet	•	٠	٠	•	•	•	:
illway (Da	tached, Broadcrest)																	
	Length										Fr. at							-
	1 Surcharge on Spillway Crest										feet feet	•	•	٠	٠	٠	•	6
Disch	arge at Spillway Design Surcharge	•		•	-	•	•	•	•	•	cfs				٠			35
Maste	r Plan	•		•	•	•	•	•	•	•	cfs	•	•	•	-	٠	•	398,80 401,70
1714500		•		•	•	•	•	•	•	•	CIS	•	•	•	•	•	•	401,70
utlet Works	<b>\$</b>																	
Contro	olled																	
	Length of Approach Channel (Trapezoid	lal, U	Inlin	ed)							feet							1:
	Entrance Invert Elevation (Gate Sill Elevation	vatio	n) .	•							ft., msl							53
	Number of Intake Gates (Tainter, Size-i	0° X	18')								each							
Lengtl	of Transition Section (Gates to Outlet C	Condu	ut) .								feet							1:
Condu	its (Circular)																	
	Number of Conduits										each							
	Size (Inside Diameter)										feet							:
	Length										feet							92
	Maximum Discharge at Spillway Crest										cfs							30,4
	Regulated Discharge at Spillway Crest										cfs						-	22,50
	Outlet Invert Elevation										ft., msl							519
eservoir De	_																	
	on (Inflow)										days							
Total	Volume of Design Flood (Std. Proj. Flood	d) .			-			٠			ac-ft							2,800,00
	Volume over 22,500 cfs							•			ac-ft		٠			٠		2,200,0
	Peak										cfs	٠						300,00
Contro	olled Outflow (Max. Avg. Outflow Capac	city)		٠	•						cfs			٠		٠	•	22,5
Reduc	tion in Peak	•		•			•				cfs					٠		227,50
I ime t	o Drain Reservoir from Maximum WSE	•		٠	•	٠	٠	٠		•	days		٠	٠	٠		•	ŕ
:11 P																		
illway Des											,							
_	of Design Flood										days	٠	•	-	٠	٠	•	<b>m</b> (00 0
	Volume in 18 Days (Max. Probable Floor							•	•	•	ac-ft	•	•	•		•	•	7,680,0
inilow	Peak			٠	•	•	٠	•		•	cfs		٠	•	•	٠	٠	620,00
A . G											cfs							436,50
Outflo	w Peak			•	•	•	•	•	•	•	cfs	•	•	•	٠	•	•	183,50