

DETAILED OPERATING PLAN FOR COLUMBIA RIVER TREATY STORAGE

1 AUGUST 1995
THROUGH 31 JULY 1996



COLUMBIA RIVER TREATY OPERATING COMMITTEE

August 1995

TABLE OF CONTENTS

I. REFERENCES AND INTERPRETATION	1
II. PREPARATION AND SCOPE.....	2
III. POWER DELIVERIES	3
A. ENTITLEMENT PURCHASE AGREEMENT COMPENSATION.....	3
B. PROVISIONAL DRAFT PAYMENT.....	3
IV. STORAGE OPERATIONS.....	4
A. OPERATION AUTHORITY.....	4
B. STORAGE OPERATION TO AER LEVEL	4
C. STORAGE OPERATION ABOVE AND BELOW AER LEVELS	4
D. PROVISIONAL DRAFT.....	5
V. SCHEDULING STORAGE REGULATION	6
A. OPERATING DATA	6
B. VOLUME RUNOFF FORECASTS	6
C. SCHEDULING AGREEMENTS.....	6
VI. OPERATING GUIDES	8
A. OPERATING RULE CURVE.....	8
B. ASSURED AND CRITICAL RULE CURVES AND OPERATING DATA	10
C. RULE CURVES FOR LATTER OPERATING YEARS	10
D. RESERVOIR CAPACITY TABLES.....	11
VII. OPERATING LIMITS.....	11
A. DUNCAN PROJECT.....	11
B. ARROW PROJECT.....	11
C. MICA PROJECT	12
D. LIBBY PROJECT.....	15
EXHIBIT 1 - ASSURED REFILL CURVES 1/.....	16
EXHIBIT 2 - FIRST CRITICAL RULE CURVES	17
EXHIBIT 3 - SECOND CRITICAL RULE CURVES	18
EXHIBIT 4 - THIRD CRITICAL RULE CURVES	19
EXHIBIT 5 - FOURTH CRITICAL RULE CURVES	20
EXHIBIT 6 - LOWER LIMIT FOR OPERATING RULE CURVE	21
EXHIBIT 7 - VARIABLE REFILL CURVE PROCEDURES	22
EXHIBIT 8 - LIBBY CRITICAL AND ASSURED REFILL CURVES (1).....	23
EXHIBIT 9 - COORDINATED SYSTEM LOADS AND RESOURCES.....	24
EXHIBIT 10 - SECOND CRITICAL RULE CURVES FOR OY 96-97.....	25
EXHIBIT 11 - THIRD CRITICAL RULE CURVES FOR OY 97-98	26
EXHIBIT 12 - FOURTH CRITICAL RULE CURVES FOR OY 98-99.....	27
EXHIBIT 13 - DUNCAN RESERVOIR CAPACITY TABLE.....	28
EXHIBIT 14 - ARROW RESERVOIR CAPACITY TABLE	32
EXHIBIT 15 - MICA RESERVOIR CAPACITY TABLE.....	35
EXHIBIT 16 - LIBBY STORAGE CAPACITY TABLE	42

DETAILED OPERATING PLAN FOR COLUMBIA RIVER TREATY STORAGE 1 AUGUST 1995 THROUGH 31 JULY 1996

I. REFERENCES AND INTERPRETATION

In this document:

- A. "Principles and Procedures" means the document "Principles and Procedures for the Preparation and Use of Hydroelectric Operating Plans," dated December 1991.
- B. "Assured Operating Plan" (AOP) means the document "Columbia River Treaty Hydroelectric Operating Plan-Assured Operating Plan for Operating Year 1995-1996," dated January 1991.
- C. "Alternative Operating Plan" (AltOP) means the document "Columbia River Treaty Hydroelectric Operating Plan Options for Development of the Detailed Operating Plan [Options Agreement] for Operating Year 1995-1996," dated January 1991.
- D. "Flood Control Plan" means the document "Columbia River Treaty Flood Control Operating Plan," October 1972, as modified by changes agreed to in letter from Mr. Ralph Legge to Mr. Nicholas Dodge on 31 May 1995.
- E. "Operating Year" means the period from 1 August 1995 through 31 July 1996.
- F. "Operating Committee" means the Columbia River Treaty Operating Committee.
- G. "Detailed Operating Plan" (DOP) means a detailed operating plan prepared for the Operating Year by the Operating Committee pursuant to the Principles and Procedures and consisting of the contents of this document.
- H. "Runoff Volume Forecast Program for Canadian Columbia River Treaty Reservoirs" means the document of that title dated 15 August 1969, with subsequent modifications as agreed by the Operating Committee.
- I. "Actual Energy Regulation" (AER) means the Coordinated System hydroregulation study performed for the Operating Committee by Bonneville Power Administration (BPA) staff that implements the DOP operating criteria using actual and forecasted streamflow conditions.
- J. "Refill Studies" means multi-water-year hydroregulation studies that determine the Power Discharge Requirements and lower limits used in the calculation of the Assured Refill Curves and the Variable Refill Curves.

- K. "Weekly Treaty Storage Operation Agreement" means the note electronically transferred (faxed or teletype) each Friday from the U.S. Section to the Canadian Section of the Operating Committee to confirm the verbal agreement by the Operating Committee for the weekly Treaty storage changes and outflows that implement this DOP.

II. PREPARATION AND SCOPE

This Detailed Operating Plan has been developed from the operating criteria contained in the 1995-96 Alternative Operating Plan and its supporting hydroregulation studies. The system loads, resources, and most nonpower constraints were not updated to Pacific Northwest Coordination Agreement (PNCA) operating data, as has been done in previous years, because of major changes in U.S. nonpower requirements. This DOP will use the 1995-96 AltOp four year critical period study and operating criteria for both Canadian and U.S. projects to define the Canadian Treaty storage operation.

Significant changes from the 1995-96 AltOp studies include updated flood control rule curves at Mica and Arrow, and the minimum flow changes at Libby to 4,000 cfs in all periods instead of a variable minimum flow.

The usable Columbia River Treaty storage space available for power purposes during the Operating Year is 15.5 million acre-feet in Canada and 4.9795 million acre-feet at Libby in the United States, distributed as follows:

Duncan Reservoir

1.4 million acre-feet (705.8 thousand second-foot-days) between elevations 1892.0 feet and 1794.2 feet measured at Duncan forebay. (Based on B.C. Hydro table dated 21 February 1973.)

Arrow Reservoir

7.1 million acre-feet (3579.6 thousand second-foot-days) between elevations 1444.0 feet and 1377.9 feet measured at Fauquier, B.C. (Based on B.C. Hydro table dated 28 February 1974.)

Kinbasket Reservoir (Mica)

7.0 million acre-feet (3529.2 thousand second-foot-days) measured at Mica forebay. (Based on B.C. Hydro table dated 25 March 1974.)

Lake Koocanusa (Libby)

4.9795 million acre-feet (2510.5 thousand second-foot-days) between elevation 2459.0 feet and 2287.0 feet measured at Libby forebay.

The usable Canadian storage available for normal flood-control purposes for the Operating Year is 1.27 million acre-feet in Duncan Reservoir below elevation 1892.0 feet; 3.6 million acre-feet in Arrow Reservoir below elevation 1444.0 feet; and 4.08 million acre-feet in Kinbasket Lake (Mica Reservoir) except that additional storage may also be operated for flood control purposes under special circumstances, as described in the Flood Control Plan. Prior to March 1996, the Canadian Entity may reallocate the flood control storage space between Mica and Arrow provided the

Operating Committee agrees that the reallocation provides the same degree of flood control protection.

III. POWER DELIVERIES

A. Entitlement Purchase Agreement Compensation

The Entity agreement on the Determination of Downstream Power Benefits (DDPB) for Operating Year 1995-96 indicated that the U.S. Entity is entitled to receive 2.0 MW of energy but no dependable capacity from British Columbia Hydro and Power Authority during the period 1 August 1995 through 31 March 1996, in accordance with Sections 7 and 10 of the Canadian Entitlement Purchase Agreement dated 13 August 1964. The Entity agreement on the DDPB for Operating Year 1996-97, indicated that the U.S. Entity is entitled to receive 0.9 MW of energy and no dependable capacity from British Columbia Hydro and Power Authority during the period 1 April 1996 through 31 July 1997, in accordance with Sections 7 and 10 of the Canadian Entitlement Purchase Agreement dated 13 August 1964. Suitable arrangements for delivery of this energy will be made between the BPA and British Columbia Hydro and Power Authority.

B. Provisional Draft Payment

As full compensation for the 1995-96 provisional draft operation described in Subsection IV(E), including the potential delayed refill in a subsequent year, the U.S. Entity shall deliver to the Canadian Entity the shift payment identified in the Option Agreement which is 20.9 MW-years of energy and no dependable capacity, minus three (3) percent transmission losses, with a net total energy delivery of 178,078 megawatt hours. The energy shall be delivered in equal monthly amounts (based on the same monthly rate of delivery) from August 1, 1995 to July 31, 1996, to the point of interconnection between Bonneville Power Administration (BPA) and the British Columbia Hydro and Power Authority at the U.S./Canadian border near Blaine, Washington. Unless otherwise agreed, the U.S. Entity shall pre-schedule the energy deliveries each week in a shape it desires, subject to a maximum rate of delivery of 80 MW, which is based on twice an amount equal to uniform monthly delivery over the eight (8) light load hours per week day and flat on weekends. Interruptions for transmission maintenance or outages will be made up at a rate up to two times the above maximum rate. The U.S. Entity shall finalize and inform the Canadian Entity of next week's schedule of energy delivery by Friday 11:00 a.m. each week. The weekly schedule shall not be changed during the week except for unexpected outages or system emergencies. The Entities may agree to other forms of compensation for the provisional draft.

IV. STORAGE OPERATIONS

A. Operation Authority

The operation of Treaty storage by the Columbia River Treaty Operating Committee during the period 1 August 1995 through 31 July 1996 shall be in accordance with Sections I through VII of this DOP and any operational agreements signed by the Entities during the operating year. Consistent with the operating principles in this section, the Operating Committee may from time-to-time agree to mutually beneficial changes in the operating procedures contained in this document. These changes will be documented and reported to the Entities.

B. Storage Operation to AER Level

Except as allowed in subsections C and D below, the weekly Treaty Storage Operation Agreements shall be based on operating Canadian Treaty projects to the end-of-month elevations contained in the current AER. The AER shall be based on the operating criteria described in this document.

C. Storage Operation Above and Below AER Levels

Consistent with flood control, operating limits, and the principles and limitations defined below, the Operating Committee may agree to mutually beneficial arrangements for storage above and below the AER levels to meet power and nonpower objectives.

1. Power Objectives

Power objectives include minimizing spill and optimizing energy production, power marketing, and purchase decisions. Operations for power objectives may be combined with nonpower objectives.

2. Nonpower Objectives

Operations designed to help meet nonpower objectives does not imply that either Entity acknowledges any obligation, domestic or international, to meet those objectives. The Entities agree that operation(s) for nonpower objectives does not set a precedent concerning any current or future dispute over Treaty rights and obligations, nor do they set a precedent for non-power objectives or flow objectives and contents.

Canadian nonpower objectives contemplated include but are not limited to white fish and trout spawning downstream of Keenleyside, dust storm avoidance upstream of Keenleyside, and recreation needs. US nonpower objectives include but are not limited to storage up to 1 MAF for anadromous fish flow augmentation, minimum flows at Vernita Bar for fish spawning, and recreation needs. Nonpower objectives considered in this section, does not include flood control and operating limits in Section VII.

Recognizing that it may not be possible to meet all nonpower objectives, the Operating Committee shall in general attempt to share equally the risk and

amount of failure. The parties shall make reasonable efforts to use available flexibility at their projects prior to requesting changes to Treaty storage.

D. Provisional Draft

1. The 1991 Option Agreement allows the U.S. Entity to provisionally draft Treaty storage below rule curves established in the 1995-96 Alternative Operating Plan provided that the Entities agree on mutually acceptable criteria that will result in the restoration of Canadian Treaty storage similar to that which would have occurred under the 1995-96 Assured Operating Plan. The following procedures accomplish that requirement.
2. The U.S. Entity may provisionally draft Canadian Treaty Storage below the elevations established in the AER by up to the Maximum Amount of Provisional Draft. The Maximum Amount of Provisional Draft available during any month is a function of the proportional draft point (PDP) from the AER and the following table.

Maximum Amount of Provisional Draft in Ksf

	Aug15	Aug31	Sep	Oct	Nov	Dec	Jan	Feb	March	Apr15	Apr30	May	June	July
ECC =	-75	-150	-300	-400	-450	-500	-500	-350	-200	-150	-100	-100	-100	0
CRC1 =	-75	-150	-300	-400	-450	-500	-500	-350	-200	-150	-150	-150	-150	-150
CRC2 =	-75	-150	-300	-400	-450	-500	-500	-300	-175	-100	-150	-150	-150	-150
CRC3 =	-75	-150	-300	-400	-450	-500	-400	-250	-175	-100	-100	-150	-150	-150
CRC4 =	-75	-150	-300	-225	-150	-75	0	0	0	0	0	0	0	0
Empty =	0	0	0	0	0	0	0	0	0	0	0	0	0	0

During the months of May, June, and July, the U.S. Entity will make reasonable efforts to avoid any adverse nonpower impacts at Arrow caused by provisional draft.

3. Provisional draft may be requested or returned weekly at the same time as requests for Treaty storage in an amount not to exceed 35 ksf per week. The procedure for determining the weekly provisional storage transaction amount and making the request for provisional storage transactions shall parallel the method for Weekly Treaty Storage Operation Agreements. The provisional storage transaction shall be accounted as having occurred 50 percent at Mica and 50 percent at Arrow. Any provisional draft outstanding on July 31, 1996 shall, unless otherwise agreed, be returned in August 1996 at the maximum rate.
4. The U.S. Entity grants the right to determine the timing and amount of Canadian Provisional Draft storage and return, consistent with paragraphs a through c above, to BPA, in return for BPA accepting the obligation for making the entire payment required by Section III.

V. SCHEDULING STORAGE REGULATION

A. Operating Data

The Operating Committee will exchange all current operating data necessary for the regulation of Canadian storage projects as soon as available, including the beginning and end of the flood control season.

B. Volume Runoff Forecasts

Seasonal runoff volume forecasts for Canadian Treaty Projects shall be made available by the Canadian Section no later than the seventh of each month, as required. Forecasts of seasonal runoff volume at periods other than those representing month-end conditions may be requested by the Operating Committee if hydrologic conditions warrant. Preliminary seasonal runoff volume forecasts for the Columbia River at The Dalles, Oregon, shall be made available by the U.S. Section on the second working day of each month as required.

C. Scheduling Agreements

Unless otherwise agreed, requests by the U.S. Section of the Operating Committee for the regulation of the Canadian storage content will be made to the Canadian Section on a regular basis in accordance with the following procedures:

1. Weekly Agreement for Storage Regulation During the Storage Drawdown Season
 - a) Timing. A preliminary request will be made not later than noon each Thursday, followed by a final agreement by noon Friday, if necessary.
 - b) Confirmation. Confirmation of the Treaty Storage Operation Agreement will be transmitted via the hydromet reporting network or fax on Friday in accordance with the following format unless otherwise agreed:

This message confirms our verbal agreement on
[day, month (spell-out), year] that the (*storing/drafting*) of an estimated
___ ksf (in/from) the whole of Canadian Treaty Storage for the Period
___ through ___ is consistent with the DOP.

This agreement is based on an estimated average inflow during the
above mentioned period of

___ kfs to Duncan Reservoir,
___ kfs to Libby Reservoir,
___ kfs to Mica Reservoir, and
Estimated average regulated inflow of
___ kfs to Arrow Reservoir, and an
Estimated regulated outflow of
___ kfs from the Libby Project

That will result in average weekly Treaty discharges of
_____ kcfs from the Duncan Project,
_____ kcfs from the Mica Project, and
_____ kcfs from the Arrow Project.

This operation is based on the DOP AER expected end-of-
_____ storage level for the whole of Canadian Treaty Storage of
_____ ksf.

This operation includes:

Expected (*storage / draft*) (*above / below*) the end-of-month DOP AER level
for the whole of Canadian Treaty Storage of
_____ ksf, and

The (*return / draft*) of Provisional Draft for this period of
_____ ksf from Mica and
_____ ksf from Arrow,

With a total end-of-period cumulative Provisional Draft of
_____ ksf from Mica and
_____ ksf from Arrow.

- c) Period Covered by Weekly Treaty Storage Operation Agreement. The period covered by the agreement shall be from 0800 hours on the Saturday following the date of weekly request to 0800 hours on the Saturday a week later. Changes from the previous week's agreement shall commence at 0800 hours on Saturday, or as soon thereafter as permitted by the limits of VII(B)7.
- d) Release Determination. The amount of water released or stored during the period of the Weekly Treaty Storage Agreement will be determined by the changes in reservoir contents based on the recorded lake stage and storage capacity tables for Duncan (Exhibit 13), Arrow (Exhibit 14), and Mica (Exhibit 15). The change in Arrow storage content will be determined using the recorded lake stage at the gauge near Fauquier, B.C.
- e) Delivery. Storage releases will be made effective at the Canadian-United States border. The Weekly Treaty Storage Operation Agreement will be deemed to have been fulfilled if the total amount of storage water agreed to is released from Duncan, Arrow, and Mica reservoirs, provided an amount equal to or greater than the storage water release from Duncan reservoir is concurrently discharged from Kootenay Lake.
- f) Modification. If any modification to a written Weekly Treaty Storage Operation Agreement is agreed by the Operating Committee, a further written Storage Agreement superseding the original will be dispatched immediately by the U.S. Section of the Operating Committee to the Canadian Section of the Operating Committee.
- g) Non-routine Operation. Any special operation which is agreed by the Operating Committee will be suitably documented.

2. Daily Agreement for Storage Regulation During Flood Control Season
 - a) Forecasts. Day-to-day streamflow forecasts will be accomplished by use of computer simulation by the Columbia River Forecasting Service. The regulation center required by the Flood Control Plan for the flood regulation will be located in the North Pacific Division Office, Corps of Engineers, Portland, Oregon.
 - b) Daily Requests for Project Outflows. Pursuant to the operating rules in the Flood Control Plan, the outflows from individual Canadian storage projects are specified on a day-to-day basis. Requests will be coordinated by telephone daily or on an as needed basis, by conference calls between members of the Operating Committee or their representatives. The requests will normally prescribe the requested outflows as a mean daily discharge in cubic feet per second, for the 24-hour period from noon to noon of each day. Daily requests for project outflows will be determined by methods as agreed upon, and documented with a confirmation agreement by a message transmitted via the hydromet reporting network or fax from the Corps of Engineers, in Portland, Oregon. Acknowledgment of this agreement will be made by the Canadian Section of the Operating Committee or their representative via the hydromet reporting network or fax. Any modification of the documented daily request shall be agreed by the Operating Committee before being put into effect, and shall be documented immediately using the procedure described above.
3. Regulation During Winter Floods. Daily requests for project outflows from Canadian projects are normally confined to the flood control refill period. During periods of high winter flows in the Lower Columbia River, if a special regulation of Arrow storage becomes necessary to preserve the natural flood control storage effect, the outflows from Arrow will be regulated on a day-to-day basis in accordance with the requests of the U.S. Section of the Operating Committee. The requests for such regulation will be in accordance with procedures described above.

VI. OPERATING GUIDES

A. Operating Rule Curve

The Operating Rule Curve for the whole of Canadian Storage shall be the sum of the Operating Rule Curves for each of Duncan, Arrow, and Mica. The Operating Rule Curve for each of the Duncan, Arrow, and Mica Reservoirs during the period 1 August 1995 through 31 July 1996 is determined in accordance with the reference documents of Section 1, and is defined as follows:

1. During the period 1 August 1995 through 31 December 1995, it is the higher of the First Critical Rule Curve or the Assured Refill Curve.

2. During the period 1 January 1996 through 31 July 1996 it is the higher of the First Critical Rule Curve or the Assured Refill Curve, unless the Variable Refill Curve is below the higher of the above two curves; then it is defined by the Variable Refill Curve.
3. During the period 1 January 1996 through 31 March 1996 it will not be lower than a Limiting Rule Curve designed to protect firm loads with recurrence of 1936-37 hydro conditions unless a lower reservoir elevation is required for flood control (Exhibit 6).
4. During any period in the 1995-96 Operating Year, it will not be higher than the Upper Rule Curve, defined as the maximum elevation of each reservoir established by flood control requirements and may be modified on mutual agreement for construction and other contingency requirements.
5. Operation of Mica will be in accordance with the monthly average outflows tabulated with specified qualifications under Operating Limits. The obligation to operate Mica to produce optimum benefits in Canada and downstream in the United States will be deemed to have been fulfilled by operating to these criteria.
6. The Variable Refill Curves for Duncan and Mica shall be constructed based on the power discharge requirement specified in Exhibit 7.
7. The Variable Refill Curve for Arrow shall be constructed as specified below:
 - a) If the projected live Mica storage content at the end of the current month using most likely Mica inflow and target outflows (expected live Mica storage content) is less than that computed for the Variable Refill Curve for Mica, the Variable Refill Curve for Arrow will be calculated using the Arrow Local Inflow Method as follows.
 - (i) The forecast volume of inflow for Arrow will exclude the volume of inflow above the Mica project (Arrow local inflow). This volume will be reduced by a forecast error such that there is a 95 percent probability that the reduced forecast is equaled or exceeded.
 - (ii) The total Mica target outflow as specified in VII(c) will be added to the forecast volume described in a(i) above.
 - (iii) In computing water available for refill of Arrow Reservoir the power discharge requirements for Arrow as specified in Exhibit 7 will be deducted from the volume calculated in a(ii).
 - (iv) For the purpose of calculating the rule curve for the whole of Canadian storage, the Variable Refill Curve for Mica will be set equal to the expected live Mica Treaty storage content.

- b) If the expected live Mica storage content is greater than that computed for the Variable Refill Curve for Mica, the Variable Refill Curve for Arrow will be computed using the Arrow Total Inflow Method, i.e., the forecast volume of inflow above the Mica project will be included. The space in Mica to be deducted from the Arrow total inflow will be equal to the amount of storage draft determined by the Operating Rule Curve for Mica as defined in paragraphs VI(A)2 and VI(A)3.

The Operating Rule Curve for Libby Reservoir is defined in a manner similar to that for Canadian storage.

B. Assured and Critical Rule Curves and Operating Data

- | | |
|--|-----------|
| 1. Assured Refill Curve for Duncan, Arrow, Mica. | Exhibit 1 |
| 2. First Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 2 |
| 3. Second Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 3 |
| 4. Third Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 4 |
| 5. Fourth Critical Rule Curve for Duncan, Arrow, Mica, and the whole of Canadian storage. | Exhibit 5 |
| 6. Lower Limit for Operating Rule Curve based on 1936-37 Hydro Conditions. | Exhibit 6 |
| 7. Variable Refill Curve Procedures. | Exhibit 7 |
| 8. The First, Second, Third, and Fourth Critical Rule Curves and Assured Refill Curve for Libby. | Exhibit 8 |
| 9. Coordinated System Loads and Resources | Exhibit 9 |

C. Rule Curves for latter operating years

The following tables, including adjustments, have been agreed to by the Entities:

- | | |
|---|------------|
| 1. Second Critical Rule Curves for Duncan, Arrow, Mica, and the whole of Canadian storage for Operating Year 1996-97. | Exhibit 10 |
| 2. Third Critical Rule Curves for Duncan, Arrow, Mica, and the whole of Canadian storage for Operating Year 1997-98. | Exhibit 11 |

- | | | |
|----|---|------------|
| 3. | Fourth Critical Rule Curves for Duncan, Arrow, Mica, and the whole Canadian storage for Operating Year 1998-99. | Exhibit 12 |
|----|---|------------|

D. Reservoir Capacity Tables

The following tables shall be considered to be the official storage for the projects:

- | | | |
|----|---|------------|
| 1. | Duncan Reservoir Capacity Table (based on B.C. Hydro table dated 21 February 1973). | Exhibit 13 |
| 2. | Arrow Reservoir Capacity Table (based on B.C. Hydro Combined Storage Table dated 28 February 1974). | Exhibit 14 |
| 3. | Mica Reservoir Capacity Table (based on B.C. Hydro table dated 25 March 1974). | Exhibit 15 |
| 4. | Libby Storage above elevation 2287 feet. | Exhibit 16 |

VII. OPERATING LIMITS

A. Duncan Project

1. Maximum outflow is 20,000 cfs through outlets with the limit of 10,000 cfs each period in the AER model.
2. Minimum average weekly outflow is 100 cfs.
3. Maximum rate of change in outflow is normally 4,000 cfs per day unless a larger change is necessary to accomplish the objectives of the Flood Control Plan.
4. Normal full pool elevation is 1,892.0 feet.
5. Normal minimum pool elevation is 1,794.2 feet.
6. Normal maximum reservoir draft in elevation during any month is limited to the equivalent of 1 foot per day.

B. Arrow Project

1. Maximum outflow is physical limits only.
2. Minimum average weekly outflow is 5,000 cfs.

3. Maximum rate of change in outflow is normally 15,000 cfs per day unless a larger change is necessary to accomplish the objectives of the Flood Control Plan.
4. Normal full pool elevation is 1,444.0 feet
5. Normal minimum pool elevation is 1,377.9 feet
6. Normal maximum reservoir monthly draft in elevation limited to the equivalent of 1 foot per day
7. Advance notice for changes in outflow for:
 - a) Drop in downstream level of
 - ½ foot - None,
 - 1 foot - 1 hour,
 - 2 feet - 2 hours,
 - 3 feet - 24 hours, and
 - b) Rise in downstream level of
 - ½ foot - None,
 - 1 foot - 1 hour,
 - 2 feet - 2 hours,
 - 3 feet - 7 hours, only if notice is received before 10:00 a.m. that day, otherwise 24-hour notice is required.

C. Mica Project

The Mica Project Treaty storage will be operated to the following monthly average target outflows specified in subsection VII(C)2 below except as qualified in subsections VII(C)3 through VII(C)9.

1. Variable Refill Curves. Variable Refill Curves (VRC) shall be constructed based on a power discharge requirement as indicated in Exhibit 7 with 31 July Treaty storage content of 3,529.2 KSFD.
2. Mica Project Operating Criteria. Mica project operation will be determined by the End of Previous Period Arrow Storage Content as shown in the following table, except for the limitations or changes required by subsections VII(C)3 through VII(C)9. The End of Previous Period Arrow Storage Content will be determined from the current AER. Mica's operation will be defined either by a Target End of Period Storage Content or a Target Period Average Outflow.

Mica Project Operating Criteria

Month	End of Previous Period Arrow Storage Content (KSF D)	Target Operation		Minimum Target Treaty Content at Mica (KSF D)	Minimum Outflow (CFS)
		Period Average Outflow (CFS)	End of Period Storage Content (KSF D)		
August 1-15	3,300 - Full 0 - 3,300	-- 27,000	3,456.2	0.0	10,000
August 16-31	2,400 - Full 0 - 2,400	-- 27,000	3,529.2	0.0	10,000
September	2,500 - Full 0 - 2,500	-- 27,000	3,529.2	0.0	10,000
October	2,900 - Full 200 - 2,900 0 - 200	11,000 27,000 31,000		0.0	10,000
November	3,400 - Full 3,000 - 3,400 0 - 3,000	23,000 27,000	3,185.5	0.0	10,000
December	3,200 - Full 2,200 - 3,200 0 - 2,200	21,000 27,000 34,000	--	756.2	15,000
January	2,100 - Full 0 - 2,100	27,000 32,000	--	356.2	15,000
February	0 - Full	23,000	--	0.0	15,000
March	0 - Full	22,000	--	156.2	10,000
April 1-15	0 - Full		156.2	0.0	10,000
April 16-31	0 - Full		0.0	0.0	10,000
May	0 - Full	10,000	--	0.0	10,000
June	0 - Full	10,000	--	0.0	10,000
July	2,300 - Full 0 - 2,300	-- 27,000	3,356.2	0.0	10,000

3. Mica operation to the Target End-of-Period Treaty Storage Contents shall be limited by the Minimum Outflows shown in the table above, and a maximum outflow of 34,000 cfs when the Target End-of-Period Storage Content is below 3529.2 ksf unless needed to accomplish the objectives of the Flood Control Plan.
4. Mica operation to the Target Period Average Outflow shall be limited by the Minimum Target Treaty Content shown in the table above. Mica outflows shall be reduced as required down to a lower limit of the Minimum Outflow shown in the table above, to prevent draft below the Minimum Target Treaty Storage Content. Minimum Outflows may cause the reservoir to draft below the Minimum Target Treaty Content.
5. During July, the Mica operation to the Target Period Average Outflow shall not be less than the outflow necessary to meet the Target End-of-Period Storage Content of 3356.2 ksf.
6. Mica outflows will be increased during the months October through June as required to avoid violation of the Upper Rule Curve.
7. During the period January through July, if in any month the Arrow Local Inflow Method is used to compute the Variable Refill Curve as defined in Subsection VI(A)7(a), a Parallel AER using only Variable Refill Curves based on the Arrow Total Inflow Method continuously from January on will be used instead of the official AER to determine if the Arrow contents are within the limits shown above.
8. Each month, within two working days of determination of the final AER, normally available within the first ten days of the month, one correction to the adjusted Mica outflow may be made, consistent with subsection VII(C)3 above.
9. Storage releases from Mica in excess of 7 million acre-feet (MAF) that result from operating Mica under the criteria described in VII(C)2 through VII(C)8 above will be retained in the Arrow reservoir, subject to flood control criteria at Arrow, and Mica will be reduced to Minimum Outflow as required to minimize releases in excess of 7 MAF. The total combined storage draft from Mica and Arrow will not exceed 14.1 million acre-feet unless flood control criteria will not permit the additional Mica storage releases for minimum flow purposes to be retained at Arrow.

D. Libby Project

1. **Maximum Outflow** - When the spillway capacity is insufficient to pass the required flow, the regulating outlets may be used.

Forebay Elevation	One Sluice	Three Sluices
2459 ft.	20,300 cfs	61,000 cfs
2425 ft.	19,000 cfs	57,000 cfs
2405 ft.	18,200 cfs	54,600 cfs
2350 ft.	15,500 cfs	46,500 cfs
2287 ft.	11,700 cfs	35,000 cfs

2. **Minimum instantaneous outflow** is 2,000 cfs and the normal minimum daily outflow is 4,000 cfs.
3. **Maximum rate of tailwater change**
 - a) **May - September** - 1 ft. per hour
4 ft. per 24 hours
 - b) **October - April** - 1 ft. per ½ hour
6 ft. per 24 hours
4. **Maximum CRC elevation** - 2459.0 feet
5. **Minimum CRC elevation** - 2363.0 feet in December only
2287.0 feet in all other months

Exhibit 1 - Assured Refill Curves 1/

Month	DUNCAN					MICA						ARROW					
	1931	PDR	Water Available			1931	PDR	Water Available			ARC	1931	PDR	Water Available		MICA	ARC
	Inflow		for Refill		ARC	Inflow		for Refill		CRC1		Inflow		for Refill		Fill 2/	
	CFS	CFS	CFS	KSEF	KSEF	CFS	CFS	CFS	KSEF	KSEF	CFS	CFS	CFS	KSEF	KSEF	KSEF	
	3/																
July	7320	2000	5320	164.9	705.8	56477	28000	28480	882.9	2898.7	3529.2	88586	45000	43590	1351.3	882.9	3579.6
June	8030	2000	6030	180.9	540.9	60178	28000	32180	965.4	2127.8	2646.3	114636	45000	69640	2089.2	965.4	3111.2
May	5170	2000	3170	98.3	360.0	28058	25000	3060	94.9	494.6	1680.9	68098	40000	28100	871.1	94.9	1987.4
Apr2	981	2000	-1020	-15.3	261.7	7217	23000	-15780	-236.7	34.8	1586.1	20504	30000	-9500	-142.5	-236.7	1211.2
Apr1	981	500	480	7.2	277.0	4679	23000	-18320	-274.8	324.1	1822.8	10700	22000	-11300	-169.5	-274.8	1117.0
Mar	555	500	60	1.9	269.8	3219	23000	-19780	-613.2	781.1	2097.6	7653	18000	-10350	-320.9	-613.2	1011.7
Feb	428	500	-70	-2.0	268.0	2593	20000	-17410	-487.5	1162.3	2710.7	5813	15000	-9190	-257.3	-487.5	719.3
Jan	428	100	330	10.2	269.9	2834	3000	-170	-5.3	2151.9	3198.2	6430	5000	1430	44.3	-5.3	489.2
Dec	461	100	360	11.2	259.7	3531	3000	530	16.4	3049.0	3203.5	6694	5000	1690	52.4	-99.7	439.6
Nov	684	100	580	17.4	248.5	5176	3000	2180	65.4	3303.2	3187.1	9483	5000	4480	134.4	-104.0	287.5
Oct	1090	100	990	30.7	231.1	8751	3000	5750	178.3	3407.2	3121.7	14691	5000	9690	300.4	-59.7	49.1
Sep	2310	100	2210	66.3	200.4	23110	3000	20110	603.3	3466.9	2943.4	39739	5000	34740	1042.2	-62.3	0.0
Aug2	4530	100	4430	70.9	134.1	38261	3000	35260	564.2	3529.2	2340.1	62605	5000	57610	921.8	0.0	0.0
Aug1	4530	100	4430	66.5	63.3	53542	3000	50540	758.1	3529.2	1776.0	82249	5000	77250	1158.8	0.0	0.0

Notes:

- 1/ The Assured Refill Curve indicates the end-of-month storage content required to assure refill of Canadian storage by 31 July based on 1931 historical monthly inflow. The monthly inflow at each reservoir is reduced by deducting the Power Discharge Requirements and water required for refill, if any, at upstream reservoirs. The Entities may agree to revise the data upon the completion of the Refill Study by the Operating Committee.
- 2/ Higher of Mica's ARC or CRC1 shown in Exhibit 2.
- 3/ Inflows are from 1990 Level Modified streamflow (Hydrosim file). PDRs are from 1995-96 AltOP study.

Exhibit 2 - First Critical Rule Curves

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Total</u>
August 15	705.8	3579.6	3529.2	7814.6
August 31	705.8	3579.6	3529.2	7814.6
September	692.6	3532.6	3466.9	7692.1
October	641.7	3441.8	3407.2	7490.7
November	502.5	3301.3	3303.2	7107.0
December	407.8	2696.7	3049.0	6153.5
January	254.3	1683.1	2151.9	4089.3
February	235.1	901.1	1162.3	2298.5
March	129.3	1077.8	781.1	1988.2
April 15	53.8	515.5	324.1	893.4
April 30	58.9	269.4	34.8	363.1
May	167.3	1109.5	494.6	1771.4
June	442.1	2656.5	2127.8	5226.4
July	610.3	3428.8	2898.7	6937.8

Source: First-year critical rule curves from the AltOP 1995-96.
 These rule curves are same as the 1995-96 AltOP.

Exhibit 3 - Second Critical Rule Curves

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Total</u>
August 15	552.3	3432.7	3292.9	7277.9
August 31	493.1	3399.9	3338.9	7231.9
September	383.2	3342.1	3164.6	6889.9
October	182.1	3050.2	2916.1	6148.4
November	19.9	2506.7	2446.0	4972.6
December	18.6	1766.3	1928.4	3713.3
January	9.8	789.3	874.3	1673.4
February	14.1	186.4	384.8	585.3
March	4.8	197.4	140.8	343.0
April 15	16.3	91.5	27.2	135.0
April 30	0.8	269.4	34.8	305.0
May	0.0	658.3	32.4	690.7
June	219.6	1995.2	1236.9	3451.7
July	166.6	3041.9	2618.2	5826.7

Source: The 1995-96 second-year critical rule curves from the 1994-95 DOP unless higher than the first year critical rule curve. These rule curves are same as the 1995-96 AltOP except adjusting for the cross-over that are outlined for distinction.

Exhibit 4 - Third Critical Rule Curves

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Total</u>
August 15	114.7	3282.9	2955.9	6353.5
August 31	160.8	3232.0	3134.5	6527.3
September	167.2	3256.0	3099.3	6522.5
October	11.0	2982.3	2856.8	5850.1
November	10.6	2436.8	2394.6	4842.0
December	8.9	1648.0	1885.2	3542.1
January	9.8	789.3	864.0	1663.1
February	9.8	96.5	147.1	253.4
March	4.8	158.1	68.6	231.5
April 15	12.5	91.5	27.2	131.2
April 30	0.8	95.0	26.0	121.8
May	0.0	658.3	12.8	671.1
June	208.1	1226.2	847.4	2281.7
July	134.0	1840.7	1579.5	3554.2

Source: The 1995-96 third-year critical rule curves from the 1993-94 DOP unless higher than the first or second year critical rule curves. These rule curves are same as 1995-96 AltOp except adjusting for cross-over that are outlined for distinction.

Exhibit 5 - Fourth Critical Rule Curves

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Total</u>
August 15	50.3	1876.7	1636.1	3563.1
August 31	6.0	1632.0	1630.8	3268.8
September	2.3	1598.3	1351.4	2952.0
October	1.8	1364.2	951.1	2317.1
November	0.0	1247.1	387.3	1634.4
December	0.0	822.2	4.6	826.8
January	0.0	346.0	10.2	356.2
February	0.0	0.0	0.0	0.0

Source: The 1995-96 fourth-year critical rule curves from the 1992-93 DOP unless higher than the first, second, or third year critical rule curves. These rule curves are same as the 1995-96 AltOP.

Exhibit 6 - Lower Limit for Operating Rule Curve

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Libby</u>
January	1.2	627.2	317.6	330.0
February	1.6	246.2	0.0	121.7
March	0.8	183.3	0.0	14.0

Source: ECC Lower Limits for Duncan, Arrow and Mica are from 1995-96 AltOP. Libby data is from 1994-95 Lower Limits Regulation Study. The Operating Committee may agree to revise the data upon the completion of an ECC Lower Limit Study.

Exhibit 7 - Variable Refill Curve Procedures

The Variable Refill Curves (VRC) indicate the end-of-month storage content required to refill Canadian storage based on forecasts of natural inflow volume. The probable forecast volume at each reservoir is reduced by deducting the 95 percent confidence forecast error, Power Discharge Requirements (PDR), and water required for refill at upstream reservoirs. The 1995-96 AltOP studies made for the U.S. Coordinated System operation indicate that the PDR's for all cyclic reservoirs must be greater than project minimum release to allow filling in accordance with the Principles and Procedures coincident with carrying system firm load when the Columbia River at The Dalles natural January-July runoff volume is lower than 95 million acre-feet. The following schedule for PDR's will apply when computing the VRC's during the period January 1 through June 1, unless the Operating Committee agrees to updated study results.

POWER DISCHARGE REQUIREMENT, IN CFS FOR JANUARY-JULY VOLUME RUNOFF OF THE COLUMBIA RIVER AT THE DALLES, OREGON

Project	Jan	Feb	Mar	Apr	May	Jun	Jul
ARC (same as 80 MAF PDRs)							
Mica	3000	20000	23000	23000	23000	25000	28000
Arrow	5000	15000	18000	22000	30000	40000	45000
Duncan	100	500	500	500	2000	2000	2000
80 MAF							
Mica	3000	20000	23000	23000	23000	25000	28000
Arrow	5000	15000	18000	22000	30000	40000	45000
Duncan	100	500	500	500	2000	2000	2000
90 MAF							
Mica	3000	3000	3000	3000	3000	3000	3000
Arrow	5000	5000	5000	5000	5000	5000	5000
Duncan	100	100	100	100	100	100	100
95 MAF and Higher							
Mica	3000	3000	3000	10000	10000	10000	20000
Arrow	5000	5000	5000	5000	10000	10000	35000
Duncan	100	100	100	100	100	100	100
Libby PDRs							
ARC	4000	4000	4000	4000	6000	6000	7000
80 MAF	4000	5000	5200	5200	6200	6200	8000
95 MAF	4000	5000	5000	5000	6000	6000	8000
110 MAF	4000	4000	4000	5000	6000	6000	8000

Notes:

- (1) If the forecasted natural January through July volume runoff at The Dalles is less than 80 MAF, the Power Discharge Requirement in the 80 MAF schedule will be used. For intermediate forecasted volumes, the Power Discharge Requirement will be interpolated linearly between the values shown above.
- (2) Data is from 1995-96 AltOP for Canadian projects and from 1994-95 PNCA Refill Study for Libby. Data may be revised upon completion of the Operating Committee Refill Studies. The Canadian Entity reserves the right to request changes to the revised data.

Exhibit 8 - Libby Critical and Assured Refill Curves (1)

(End-of-Month Usable Storage Content in 1000 SFD)

Rule Curves previously agreed to by the Entities (2)						Rule Curves proposed by the U.S. Entity (3)			
Critical Rule Curves					Assured Refill Curve (4)	Critical Rule Curves			
Month	1st	2nd	3rd	4th		1st	2nd	3rd	4th
August 15	2510.5	2395.8	2395.8	1252.7	1761.7	2359.9	2046.7	2046.7	1252.7
August 31	2510.5	2382.2	2382.2	1266.7	1810.3	2382.2	2060.9	2060.9	1266.7
September	2238.1	2163.6	2163.6	984.4	1845.7	2163.6	1946.8	1946.8	984.4
October	2154.2	1982.0	1982.0	920.6	1842.6	1982.0	1877.4	1877.4	920.6
November	1891.6	1402.2	1402.2	826.4	1814.4	1402.2	1402.2	1402.2	826.4
December	1449.4	851.8	851.8	775.9	1763.9	851.8	851.8	851.8	775.9
January	1393.6	727.4	727.4	135.3	1713.4	727.4	727.4	727.4	135.3
February	1349.1	690.4	403.6	0	1661.6	690.4	690.4	403.6	0
March	1199.6	643.9	120.1	0	1609.2	643.9	643.9	120.1	0
April 15	1108.4	684.6	105.1	0	1594.9	684.6	684.6	105.1	0
April 30	1043.1	838.4	103.1	0	1562.2	838.4	838.4	103.1	0
May	1524.5	1317.8	559.8	0	1954.4	1317.8	1317.8	559.8	0
June	2453.1	1742.8	1108.7	0	2410.4	1742.8	1595.2	1108.7	0
July	2497.3	2142.2	1319.7	0	2510.5	2142.2	1828.3	1319.7	0
Source	1995-96 AOP	1994-95 DOP	1993-94 DOP	1992-93 DOP	1994-95 PNCA FR	1994-95 DOP	1995-96 PNCA FR	1993-94 DOP	1992-93 DOP

* Outlined values have been adjusted for crossovers

Notes:

- Two sets of Libby Critical Rule Curves (CRCs) are shown. The Canadian Entity considers the *Rule Curves previously agreed to by the Entities* to be the appropriated rule curves to be used in the determination of the Libby project operation. The *Rule Curves proposed by the U.S. Entity* are modified rule curves which the U.S. Entity considers appropriate to use factoring in all power and non-power obligations, but which the Canadian Entity has not, and does not agree are appropriate to use to determine the Libby project operation.
- The *Rule Curve previously agreed to by the Entities* are those rule curves contained in the Assured Operating Plan, or subsequent Detailed Operating Plans, as indicated in the table under *Source*, and have been agreed to by the Entities in specific Entity agreements. The US Entity does not agree that it is obligated to use these rule curves to determine the Libby project operation.
- The *Rule Curves proposed by the U.S. Entity* are those rule curves which the operators of the Libby project, the U.S. Army Corps of Engineers (ACE), North Pacific Division, considers appropriate to use factoring in all power and non-power obligations, and which the U.S. Entity therefore proposes to use in the determination of the Libby project operation, but which the Canadian Entity has not, and does not agree are appropriate to use to determine the Libby project operation. In accordance with the Pacific Northwest Coordination Agreement, Section 6(h), the proposed rule curves were reordered based on beginning Coordinated System Storage Energy.
- The *Assured Refill Curve* agreed to by the Operating Committee under the 1994-95 DOP, was determined using Power Discharge Requirements (PDRs) from the 1994-95 PNCA Refill Study carried out by the ACE and may be changed by agreement of the Operating Committee as a result of the 1995-96 Refill Study which is being carried out for the PNCA by the ACE, but which is not available at this time.

Exhibit 9 - Coordinated System Loads and Resources

(Energy in average MW)

<u>Month</u>	<u>Hydro Resources</u>	<u>Thermal Resources</u>	<u>Misc. Resources</u>	<u>Maintenance & Reserves</u>	<u>C.P. Surplus</u>	<u>Total Loads</u>
August 15	11141.0	6907.0	338.0	32.0	-6	18360.0
August 31	11057.0	6907.0	338.0	27.0	-6	18281.0
September	10961.0	6685.0	333.0	9.0	-6	17976.0
October	10956.0	7095.0	340.0	9.0	-6	18388.0
November	12686.0	7141.0	522.0	4.0	-6	20351.0
December	14115.0	7140.0	647.0	0.0	-6	21908.0
January	14475.0	7149.0	791.0	0.0	-6	22421.0
February	13654.0	6953.0	944.0	0.0	-6	21557.0
March	13065.0	6115.0	784.0	5.0	-6	19965.0
April 15	12439.0	6088.0	615.0	7.0	-6	19141.0
April 30	14630.0	4343.0	330.0	8.0	-6	19301.0
May	17626.0	3764.0	329.0	20.0	-6	21705.0
June	12711.0	5738.0	339.0	16.0	-6	18778.0
July	11532.0	6949.0	327.0	51.0	-6	18763.0

Source: Loads and resources are from 1995-96 AltOp Hydrosim study. This load is 121.0 MW lower than 1995-96 AltOp Table 15 because of added conservation resources of 115.0 MW and C.P. Surplus of 6.0 MW.

Exhibit 10 - Second Critical Rule Curves for OY 96-97

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Total</u>
August 15	690.0	3354.9	3243.8	7288.7
August 31	680.0	3350.2	3301.2	7331.4
September	665.0	3146.8	3122.2	6934.0
October	570.0	2646.2	2795.5	6011.7
November	490.0	1925.2	2100.0	4515.2
December	370.0	1554.7	1786.2	3710.9
January	290.0	650.0	778.2	1718.2
February	100.0	198.6	442.7	741.3
March	81.0	1.2	0.0	82.2
April 15	64.0	0.0	1.7	65.7
April 30	54.0	126.7	0.0	180.7
May	168.0	698.4	84.9	951.3
June	385.0	1990.5	1360.5	3736.0
July	540.0	2999.8	2541.7	6081.5

Source: These rule curves are from 1996-97 2nd year AOP study.

Exhibit 11 - Third Critical Rule Curves for OY 97-98

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Total</u>
August 15	282.3	3106.1	2956.2	6344.6
August 31	321.7	3066.6	3067.7	6456.0
September	207.8	3018.8	3248.0	6474.6
October	138.6	2654.2	2937.2	5730.0
November	118.0	2417.4	2063.5	4598.9
December	80.6	1739.0	1333.3	3152.9
January	58.9	989.4	739.9	1788.2
February	58.0	132.7	407.5	598.2
March	0.0	10.0	0.0	10.0
April 15	0.0	10.3	0.0	10.3
April 30	0.0	10.5	0.0	10.5
May	5.3	277.3	287.7	570.3
June	104.6	625.2	1433.5	2163.3
July	120.0	895.9	2381.5	3397.4

Source: These rule curves are from 1997-98 3rd year AOP study.

Exhibit 12 - Fourth Critical Rule Curves for OY 98-99

(End-of-Month Usable Storage Content in 1000 SFD)

<u>Month</u>	<u>Duncan</u>	<u>Arrow</u>	<u>Mica</u>	<u>Total</u>
August 15	150.0	1195.6	1621.8	2967.4
August 31	70.0	1213.9	1440.9	2724.8
September	75.0	684.1	1816.4	2575.5
October	55.0	528.7	1417.5	2001.2
November	2.0	980.1	350.2	1332.3
December	0.1	719.2	3.0	722.3
January	0.0	345.9	9.3	355.2
February	0.0	0.0	0.0	0.0
March	0.0	0.0	0.0	0.0
April 15	0.0	0.0	0.0	0.0
April 30	0.0	0.0	0.0	0.0
May	0.0	0.0	0.0	0.0
June	0.0	0.0	0.0	0.0
July	0.0	0.0	0.0	0.0

Source: These rule curves are from 1998-99 4th year AOP study.

Detailed Operating Plan for 1995-96

Exhibit 13 - DUNCAN RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT	
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9		
1892.	705.8											
1891.	696.9	697.8	698.7	699.6	700.5	701.3	702.2	703.1	704.0	704.9	0.89	
1890.	688.0	688.9	689.8	690.7	691.6	692.4	693.3	694.2	695.1	696.0	0.89	
1889.	679.2	680.1	681.0	681.8	682.7	683.6	684.5	685.4	686.2	687.1	0.88	
1888.	670.4	671.3	672.2	673.0	673.9	674.8	675.7	676.6	677.4	678.3	0.88	
1887.	661.5	662.4	663.3	664.2	665.1	665.9	666.8	667.7	668.6	669.5	0.89	
1886.	652.8	653.7	654.5	655.4	656.3	657.1	658.0	658.9	659.8	660.6	0.87	
1885.	644.0	644.9	645.8	646.6	647.5	648.4	649.3	650.2	651.0	651.9	0.88	
1884.	635.3	636.2	637.0	637.9	638.8	639.6	640.5	641.4	642.3	643.1	0.87	
1883.	626.6	627.5	628.3	629.2	630.1	630.9	631.8	632.7	633.6	634.4	0.87	
1882.	617.9	618.8	619.6	620.5	621.4	622.2	623.1	624.0	624.9	625.7	0.87	
1881.	609.2	610.1	610.9	611.8	612.7	613.5	614.4	615.3	616.2	617.0	0.87	
1880.	600.6	601.5	602.3	603.2	604.0	604.9	605.8	606.6	607.5	608.3	0.86	
1879.	592.0	592.9	593.7	594.6	595.4	596.3	597.2	598.0	598.9	599.7	0.86	
1878.	583.4	584.3	585.1	586.0	586.8	587.7	588.6	589.4	590.3	591.1	0.86	
1877.	574.8	575.7	576.5	577.4	578.2	579.1	580.0	580.8	581.7	582.5	0.86	
1876.	566.3	567.1	568.0	568.8	569.7	570.5	571.4	572.2	573.1	573.9	0.85	
1875.	557.8	558.6	559.5	560.3	561.2	562.0	562.9	563.7	564.6	565.4	0.85	
1874.	549.3	550.1	551.0	551.8	552.7	553.5	554.4	555.2	556.1	556.9	0.85	
1873.	540.9	541.7	542.6	543.4	544.3	545.1	545.9	546.8	547.6	548.5	0.84	
1872.	532.4	533.2	534.1	534.9	535.8	536.6	537.5	538.3	539.2	540.0	0.85	
1871.	524.0	524.8	525.7	526.5	527.4	528.2	529.0	529.9	530.7	531.6	0.84	
1870.	515.7	516.5	517.4	518.2	519.0	519.8	520.7	521.5	522.3	523.2	0.83	

Detailed Operating Plan for 1995-96

Exhibit 13 - DUNCAN RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
1869.	507.3	508.1	509.0	509.8	510.7	511.5	512.3	513.2	514.0	514.9	0.84
1868.	499.0	499.8	500.7	501.5	502.3	503.1	504.0	504.8	505.6	506.5	0.83
1867.	490.7	491.5	492.4	493.2	494.0	494.8	495.7	496.5	497.3	498.2	0.83
1866.	482.4	483.2	484.1	484.9	485.7	486.5	487.4	488.2	489.0	489.9	0.83
1865.	474.2	475.0	475.8	476.7	477.5	478.3	479.1	479.9	480.8	481.6	0.82
1864.	466.0	466.8	467.6	468.5	469.3	470.1	470.9	471.7	472.6	473.4	0.82
1863.	457.8	458.6	459.4	460.3	461.1	461.9	462.7	463.5	464.4	465.2	0.82
1862.	449.7	450.5	451.3	452.1	452.9	453.7	454.6	455.4	456.2	457.0	0.81
1861.	441.6	442.4	443.2	444.0	444.8	445.6	446.5	447.3	448.1	448.9	0.81
1860.	433.5	434.3	435.1	435.9	436.7	437.5	438.4	439.2	440.0	440.8	0.81
1859.	425.4	426.2	427.0	427.8	428.6	429.4	430.3	431.1	431.9	432.7	0.81
1858.	417.4	418.2	419.0	419.8	420.6	421.4	422.2	423.0	423.8	424.6	0.80
1857.	409.4	410.2	411.0	411.8	412.6	413.4	414.2	415.0	415.8	416.6	0.80
1856.	401.4	402.2	403.0	403.8	404.6	405.4	406.2	407.0	407.8	408.6	0.80
1855.	393.5	394.3	395.1	395.9	396.7	397.4	398.2	399.0	399.8	400.6	0.79
1854.	385.6	386.4	387.2	388.0	388.8	389.5	390.3	391.1	391.9	392.7	0.79
1853.	377.7	378.5	379.3	380.1	380.9	381.6	382.4	383.2	384.0	384.8	0.79
1852.	369.9	370.7	371.5	372.2	373.0	373.8	374.6	375.4	376.1	376.9	0.78
1851.	362.1	362.9	363.7	364.4	365.2	366.0	366.8	367.6	368.3	369.1	0.78
1850.	354.3	355.1	355.9	356.6	357.4	358.2	359.0	359.8	360.5	361.3	0.78
1849.	346.6	347.4	348.1	348.9	349.7	350.4	351.2	352.0	352.8	353.5	0.77
1848.	338.9	339.7	340.4	341.2	342.0	342.7	343.5	344.3	345.1	345.8	0.77
1847.	331.2	332.0	332.7	333.5	334.3	335.0	335.8	336.6	337.4	338.1	0.77
1846.	323.6	324.4	325.1	325.9	326.6	327.4	328.2	328.9	329.7	330.4	0.76
1845.	316.0	316.8	317.5	318.3	319.0	319.8	320.6	321.3	322.1	322.8	0.76

Detailed Operating Plan for 1995-96

Exhibit 13 - DUNCAN RESERVOIR CAPACITY TABLE

ELEVATION IN FEET	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	AVERAGE DIFFERENCE PER TENTH FT
1844.	308.5	309.2	310.0	310.7	311.5	312.2	313.0	313.7	314.5	315.2	0.75
1843.	300.9	301.7	302.4	303.2	303.9	304.7	305.5	306.2	307.0	307.7	0.76
1842.	293.5	294.2	295.0	295.7	296.5	297.2	297.9	298.7	299.4	300.2	0.74
1841.	286.0	286.7	287.5	288.2	289.0	289.7	290.5	291.2	292.0	292.7	0.75
1840.	278.6	279.3	280.1	280.8	281.6	282.3	283.0	283.8	284.5	285.3	0.74
1839.	271.2	271.9	272.7	273.4	274.2	274.9	275.6	276.4	277.1	277.9	0.74
1838.	263.9	264.6	265.4	266.1	266.8	267.5	268.3	269.0	269.7	270.5	0.73
1837.	256.6	257.3	258.1	258.8	259.5	260.2	261.0	261.7	262.4	263.2	0.73
1836.	249.4	250.1	250.8	251.6	252.3	253.0	253.7	254.4	255.2	255.9	0.72
1835.	242.2	242.9	243.6	244.4	245.1	245.8	246.5	247.2	248.0	248.7	0.72
1834.	235.0	235.7	236.4	237.2	237.9	238.6	239.3	240.0	240.8	241.5	0.72
1833.	227.9	228.6	229.3	230.0	230.7	231.4	232.2	232.9	233.6	234.3	0.71
1832.	220.8	221.5	222.2	222.9	223.6	224.3	225.1	225.8	226.5	227.2	0.71
1831.	213.8	214.5	215.2	215.9	216.6	217.3	218.0	218.7	219.4	220.1	0.70
1830.	206.8	207.5	208.2	208.9	209.6	210.3	211.0	211.7	212.4	213.1	0.70
1829.	199.9	200.6	201.3	202.0	202.7	203.3	204.0	204.7	205.4	206.1	0.69
1828.	193.0	193.7	194.4	195.1	195.8	196.4	197.1	197.8	198.5	199.2	0.69
1827.	186.1	186.8	187.5	188.2	188.9	189.5	190.2	190.9	191.6	192.3	0.69
1826.	179.3	180.0	180.7	181.3	182.0	182.7	183.4	184.1	184.7	185.4	0.68
1825.	172.6	173.3	173.9	174.6	175.3	175.9	176.6	177.3	178.0	178.6	0.67
1824.	165.9	166.6	167.2	167.9	168.6	169.2	169.9	170.6	171.3	171.9	0.67
1823.	159.2	159.9	160.5	161.2	161.9	162.5	163.2	163.9	164.6	165.2	0.67
1822.	152.6	153.3	153.9	154.6	155.2	155.9	156.6	157.2	157.9	158.5	0.66
1821.	146.1	146.7	147.4	148.0	148.7	149.3	150.0	150.6	151.3	151.9	0.65
1820.	139.6	140.2	140.9	141.5	142.2	142.8	143.5	144.1	144.8	145.4	0.65

Detailed Operating Plan for 1995-96

Exhibit 13 - DUNCAN RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
1819.	133.2	133.8	134.5	135.1	135.8	136.4	137.0	137.7	138.3	139.0	0.64
1818.	126.8	127.4	128.1	128.7	129.4	130.0	130.6	131.3	131.9	132.6	0.64
1817.	120.5	121.1	121.8	122.4	123.0	123.6	124.3	124.9	125.5	126.2	0.63
1816.	114.3	114.9	115.5	116.2	116.8	117.4	118.0	118.6	119.3	119.9	0.62
1815.	108.1	108.7	109.3	110.0	110.6	111.2	111.8	112.4	113.1	113.7	0.62
1814.	102.0	102.6	103.2	103.8	104.4	105.0	105.7	106.3	106.9	107.5	0.61
1813.	96.0	96.6	97.2	97.8	98.4	99.0	99.6	100.2	100.8	101.4	0.60
1812.	90.0	90.6	91.2	91.8	92.4	93.0	93.6	94.2	94.8	95.4	0.60
1811.	84.1	84.7	85.3	85.9	86.5	87.0	87.6	88.2	88.8	89.4	0.59
1810.	78.3	78.9	79.5	80.0	80.6	81.2	81.8	82.4	82.9	83.5	0.58
1809.	72.5	73.1	73.7	74.2	74.8	75.4	76.0	76.6	77.1	77.7	0.58
1808.	66.9	67.5	68.0	68.6	69.1	69.7	70.3	70.8	71.4	71.9	0.56
1807.	61.3	61.9	62.4	63.0	63.5	64.1	64.7	65.2	65.8	66.3	0.56
1806.	55.8	56.3	56.9	57.4	58.0	58.5	59.1	59.6	60.2	60.7	0.55
1805.	50.4	50.9	51.5	52.0	52.6	53.1	53.6	54.2	54.7	55.3	0.54
1804.	45.1	45.6	46.2	46.7	47.2	47.7	48.3	48.8	49.3	49.9	0.53
1803.	39.9	40.4	40.9	41.5	42.0	42.5	43.0	43.5	44.1	44.6	0.52
1802.	34.8	35.3	35.8	36.3	36.8	37.3	37.9	38.4	38.9	39.4	0.51
1801.	29.8	30.3	30.8	31.3	31.8	32.3	32.8	33.3	33.8	34.3	0.50
1800.	25.0	25.5	26.0	26.4	26.9	27.4	27.9	28.4	28.8	29.3	0.48
1799.	20.3	20.8	21.2	21.7	22.2	22.6	23.1	23.6	24.1	24.5	0.47
1798.	15.7	16.2	16.6	17.1	17.5	18.0	18.5	18.9	19.4	19.8	0.46
1797.	11.3	11.7	12.2	12.6	13.1	13.5	13.9	14.4	14.8	15.3	0.44
1796.	7.1	7.5	7.9	8.4	8.8	9.2	9.6	10.0	10.5	10.9	0.42
1795.	3.0	3.4	3.8	4.2	4.6	5.0	5.5	5.9	6.3	6.7	0.41
1794.			0.0	0.4	0.8	1.1	1.5	1.9	2.3	2.6	0.37

Detailed Operating Plan for 1995-96

Exhibit 14 - ARROW RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT	
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9		
1444.	3579.6											
1443.	3514.1	3520.6	3527.2	3533.7	3540.3	3546.8	3553.4	3559.9	3566.5	3573.0	6.55	
1442.	3448.9	3455.4	3461.9	3468.5	3475.0	3481.5	3488.0	3494.5	3501.1	3507.6	6.52	
1441.	3384.0	3390.5	3397.0	3403.5	3410.0	3416.4	3422.9	3429.4	3435.9	3442.4	6.49	
1440.	3319.5	3325.9	3332.4	3338.8	3345.3	3351.7	3358.2	3364.6	3371.1	3377.5	6.45	
1439.	3255.2	3261.6	3268.1	3274.5	3280.9	3287.3	3293.8	3300.2	3306.6	3313.1	6.43	
1438.	3191.4	3197.8	3204.2	3210.5	3216.9	3223.3	3229.7	3236.1	3242.4	3248.8	6.38	
1437.	3127.8	3134.2	3140.5	3146.9	3153.2	3159.6	3166.0	3172.3	3178.7	3185.0	6.36	
1436.	3064.6	3070.9	3077.2	3083.6	3089.9	3096.2	3102.5	3108.8	3115.2	3121.5	6.32	
1435.	3001.7	3008.0	3014.3	3020.6	3026.9	3033.1	3039.4	3045.7	3052.0	3058.3	6.29	
1434.	2939.2	2945.4	2951.7	2957.9	2964.2	2970.4	2976.7	2982.9	2989.2	2995.4	6.25	
1433.	2877.0	2883.2	2889.4	2895.7	2901.9	2908.1	2914.3	2920.5	2926.8	2933.0	6.22	
1432.	2815.1	2821.3	2827.5	2833.7	2839.9	2846.0	2852.2	2858.4	2864.6	2870.8	6.19	
1431.	2753.5	2759.7	2765.8	2772.0	2778.1	2784.3	2790.5	2796.6	2802.8	2808.9	6.16	
1430.	2692.3	2698.4	2704.5	2710.7	2716.8	2722.9	2729.0	2735.1	2741.3	2747.4	6.12	
1429.	2631.5	2637.6	2643.7	2649.7	2655.8	2661.9	2668.0	2674.1	2680.1	2686.2	6.08	
1428.	2570.9	2577.0	2583.0	2589.1	2595.1	2601.2	2607.3	2613.3	2619.4	2625.4	6.06	
1427.	2510.7	2516.7	2522.7	2528.8	2534.8	2540.8	2546.8	2552.8	2558.9	2564.9	6.02	
1426.	2450.8	2456.8	2462.8	2468.8	2474.8	2480.7	2486.7	2492.7	2498.7	2504.7	5.99	
1425.	2391.2	2397.2	2403.1	2409.1	2415.0	2421.0	2427.0	2432.9	2438.9	2444.8	5.96	
1424.	2331.9	2337.8	2343.8	2349.7	2355.6	2361.5	2367.5	2373.4	2379.3	2385.3	5.93	
1423.	2272.8	2278.7	2284.6	2290.5	2296.4	2302.3	2308.3	2314.2	2320.1	2326.0	5.91	
1422.	2214.1	2220.0	2225.8	2231.7	2237.6	2243.4	2249.3	2255.2	2261.1	2266.9	5.87	
1421.	2155.7	2161.5	2167.4	2173.2	2179.1	2184.9	2190.7	2196.6	2202.4	2208.3	5.84	
1420.	2097.7	2103.5	2109.3	2115.1	2120.9	2126.7	2132.5	2138.3	2144.1	2149.9	5.80	

Detailed Operating Plan for 1995-96

Exhibit 14 - ARROW RESERVOIR CAPACITY TABLE

ELEVATION IN FEET	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	DIFFERENCE PER TENTH FT
1419.	2040.1	2045.9	2051.6	2057.4	2063.1	2068.9	2074.7	2080.4	2086.2	2091.9	5.76
1418.	1982.9	1988.6	1994.3	2000.1	2005.8	2011.5	2017.2	2022.9	2028.7	2034.4	5.72
1417.	1926.1	1931.8	1937.5	1943.1	1948.8	1954.5	1960.2	1965.9	1971.5	1977.2	5.68
1416.	1869.6	1875.2	1880.9	1886.5	1892.2	1897.8	1903.5	1909.1	1914.8	1920.4	5.65
1415.	1813.5	1819.1	1824.7	1830.3	1835.9	1841.5	1847.2	1852.8	1858.4	1864.0	5.61
1414.	1757.8	1763.4	1768.9	1774.5	1780.1	1785.6	1791.2	1796.8	1802.4	1807.9	5.57
1413.	1702.4	1707.9	1713.5	1719.0	1724.6	1730.1	1735.6	1741.2	1746.7	1752.3	5.54
1412.	1647.4	1652.9	1658.4	1663.9	1669.4	1674.9	1680.4	1685.9	1691.4	1696.9	5.50
1411.	1592.7	1598.2	1603.6	1609.1	1614.6	1620.0	1625.5	1631.0	1636.5	1641.9	5.47
1410.	1538.4	1543.8	1549.3	1554.7	1560.1	1565.5	1571.0	1576.4	1581.8	1587.3	5.43
1409.	1484.5	1489.9	1495.3	1500.7	1506.1	1511.4	1516.8	1522.2	1527.6	1533.0	5.39
1408.	1430.9	1436.3	1441.6	1447.0	1452.3	1457.7	1463.1	1468.4	1473.8	1479.1	5.36
1407.	1377.7	1383.0	1388.3	1393.7	1399.0	1404.3	1409.6	1414.9	1420.3	1425.6	5.32
1406.	1324.7	1330.0	1335.3	1340.6	1345.9	1351.2	1356.5	1361.8	1367.1	1372.4	5.30
1405.	1272.1	1277.4	1282.6	1287.9	1293.1	1298.4	1303.7	1308.9	1314.2	1319.4	5.26
1404.	1219.5	1224.8	1230.0	1235.3	1240.5	1245.8	1251.1	1256.3	1261.6	1266.8	5.26
1403.	1167.3	1172.5	1177.7	1183.0	1188.2	1193.4	1198.6	1203.8	1209.1	1214.3	5.22
1402.	1115.4	1120.6	1125.8	1131.0	1136.2	1141.3	1146.5	1151.7	1156.9	1162.1	5.19
1401.	1063.9	1069.0	1074.2	1079.3	1084.5	1089.6	1094.8	1099.9	1105.1	1110.2	5.15
1400.	1012.8	1017.9	1023.0	1028.1	1033.2	1038.3	1043.5	1048.6	1053.7	1058.8	5.11
1399.	962.5	967.5	972.6	977.6	982.6	987.6	992.7	997.7	1002.7	1007.8	5.03
1398.	912.7	917.7	922.7	927.6	932.6	937.6	942.6	947.6	952.5	957.5	4.98
1397.	863.2	868.1	873.1	878.0	883.0	887.9	892.9	897.8	902.8	907.7	4.95
1396.	814.1	819.0	823.9	828.8	833.7	838.6	843.6	848.5	853.4	858.3	4.91
1395.	765.2	770.1	775.0	779.9	784.8	789.6	794.5	799.4	804.3	809.2	4.89

Detailed Operating Plan for 1995-96

Exhibit 14 - ARROW RESERVOIR CAPACITY TABLE

ELEVATION IN FEET	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	DIFFERENCE PER TENTH FT
1394.	716.2	721.1	726.0	730.9	735.8	740.7	745.6	750.5	755.4	760.3	4.90
1393.	667.5	672.4	677.2	682.1	687.0	691.8	696.7	701.6	706.5	711.3	4.87
1392.	619.3	624.1	628.9	633.8	638.6	643.4	648.2	653.0	657.9	662.7	4.82
1391.	571.5	576.3	581.1	585.8	590.6	595.4	600.2	605.0	609.7	614.5	4.78
1390.	524.2	528.9	533.7	538.4	543.1	547.8	552.6	557.3	562.0	566.8	4.73
1389.	477.9	482.5	487.2	491.8	496.4	501.0	505.7	510.3	514.9	519.6	4.63
1388.	432.3	436.9	441.4	446.0	450.5	455.1	459.7	464.2	468.8	473.3	4.56
1387.	387.2	391.7	396.2	400.7	405.2	409.7	414.3	418.8	423.3	427.8	4.51
1386.	342.6	347.1	351.5	356.0	360.4	364.9	369.4	373.8	378.3	382.7	4.46
1385.	298.5	302.9	307.3	311.7	316.1	320.5	325.0	329.4	333.8	338.2	4.41
1384.	254.6	259.0	263.4	267.8	272.2	276.5	280.9	285.3	289.7	294.1	4.39
1383.	211.2	215.5	219.9	224.2	228.6	232.9	237.2	241.6	245.9	250.3	4.34
1382.	168.4	172.7	177.0	181.2	185.5	189.8	194.1	198.4	202.6	206.9	4.28
1381.	126.1	130.3	134.6	138.8	143.0	147.2	151.5	155.7	159.9	164.2	4.23
1380.	84.3	88.5	92.7	96.8	101.0	105.2	109.4	113.6	117.7	121.9	4.18
1379.	43.2	47.3	51.4	55.5	59.6	63.7	67.9	72.0	76.1	80.2	4.11
1378.	2.7	6.7	10.8	14.8	18.9	22.9	27.0	31.0	35.1	39.1	4.05
1377.										0.0	2.70

Detailed Operating Plan for 1995-96

Exhibit 15 - MICA RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT	
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9		
2475.	10121.1											5.38
2474.	10067.5	10072.9	10078.2	10083.6	10088.9	10094.3	10099.7	10105.0	10110.4	10115.7		5.36
2473.	10014.1	10019.4	10024.8	10030.1	10035.5	10040.8	10046.1	10051.5	10056.8	10062.2		5.34
2472.	9960.8	9966.1	9971.5	9976.8	9982.1	9987.4	9992.8	9998.1	10003.4	10008.8		5.33
2471.	9907.8	9913.1	9918.4	9923.7	9929.0	9934.3	9939.6	9944.9	9950.2	9955.5		5.30
2470.	9854.8	9860.1	9865.4	9870.7	9876.0	9881.3	9886.6	9891.9	9897.2	9902.5		5.30
2469.	9802.1	9807.4	9812.6	9817.9	9823.2	9828.5	9833.7	9839.0	9844.3	9849.5		5.27
2468.	9749.5	9754.8	9760.0	9765.3	9770.5	9775.8	9781.1	9786.3	9791.6	9796.8		5.26
2467.	9697.1	9702.3	9707.6	9712.8	9718.1	9723.3	9728.5	9733.8	9739.0	9744.3		5.24
2466.	9644.8	9650.0	9655.3	9660.5	9665.7	9671.0	9676.2	9681.4	9686.6	9691.9		5.23
2465.	9592.7	9597.9	9603.1	9608.3	9613.5	9618.8	9624.0	9629.2	9634.4	9639.6		5.21
2464.	9540.8	9546.0	9551.2	9556.4	9561.6	9566.8	9571.9	9577.1	9582.3	9587.5		5.19
2463.	9489.0	9494.2	9499.4	9504.5	9509.7	9514.9	9520.1	9525.3	9530.4	9535.6		5.18
2462.	9437.4	9442.6	9447.7	9452.9	9458.0	9463.2	9468.4	9473.5	9478.7	9483.8		5.16
2461.	9386.0	9391.1	9396.3	9401.4	9406.6	9411.7	9416.8	9422.0	9427.1	9432.3		5.14
2460.	9334.8	9339.9	9345.0	9350.2	9355.3	9360.4	9365.5	9370.6	9375.8	9380.9		5.12
2459.	9283.7	9288.8	9293.9	9299.0	9304.1	9309.3	9314.4	9319.5	9324.6	9329.7		5.11
2458.	9232.8	9237.9	9243.0	9248.1	9253.2	9258.3	9263.3	9268.4	9273.5	9278.6		5.09
2457.	9182.0	9187.1	9192.2	9197.2	9202.3	9207.4	9212.5	9217.6	9222.6	9227.7		5.08
2456.	9131.4	9136.5	9141.5	9146.6	9151.6	9156.7	9161.8	9166.8	9171.9	9176.9		5.06
2455.	9081.0	9086.0	9091.1	9096.1	9101.2	9106.2	9111.2	9116.3	9121.3	9126.4		5.04

Detailed Operating Plan for 1995-96

Exhibit 15 - MICA RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2454.	9030.8	9035.8	9040.8	9045.9	9050.9	9055.9	9060.9	9065.9	9071.0	9076.0	5.02
2453.	8980.7	8985.7	8990.7	8995.7	9000.7	9005.8	9010.8	9015.8	9020.8	9025.8	5.01
2452.	8930.8	8935.8	8940.8	8945.8	8950.8	8955.8	8960.7	8965.7	8970.7	8975.7	4.99
2451.	8881.0	8886.0	8891.0	8895.9	8900.9	8905.9	8910.9	8915.9	8920.8	8925.8	4.98
2450.	8831.4	8836.4	8841.3	8846.3	8851.2	8856.2	8861.2	8866.1	8871.1	8876.0	4.96
2449.	8782.0	8786.9	8791.9	8796.8	8801.8	8806.7	8811.6	8816.6	8821.5	8826.5	4.94
2448.	8732.8	8737.7	8742.6	8747.6	8752.5	8757.4	8762.3	8767.2	8772.2	8777.1	4.92
2447.	8683.7	8688.6	8693.5	8698.4	8703.3	8708.3	8713.2	8718.1	8723.0	8727.9	4.91
2446.	8634.8	8639.7	8644.6	8649.5	8654.4	8659.3	8664.1	8669.0	8673.9	8678.8	4.89
2445.	8586.0	8590.9	8595.8	8600.6	8605.5	8610.4	8615.3	8620.2	8625.0	8629.9	4.88
2444.	8537.5	8542.4	8547.2	8552.1	8556.9	8561.8	8566.6	8571.5	8576.3	8581.2	4.85
2443.	8489.1	8493.9	8498.8	8503.6	8508.5	8513.3	8518.1	8523.0	8527.8	8532.7	4.84
2442.	8440.8	8445.6	8450.5	8455.3	8460.1	8465.0	8469.8	8474.6	8479.4	8484.3	4.83
2441.	8392.7	8397.5	8402.3	8407.1	8411.9	8416.8	8421.6	8426.4	8431.2	8436.0	4.81
2440.	8344.8	8349.6	8354.4	8359.2	8364.0	8368.8	8373.5	8378.3	8383.1	8387.9	4.79
2439.	8297.1	8301.9	8306.6	8311.4	8316.2	8321.0	8325.7	8330.5	8335.3	8340.0	4.77
2438.	8249.5	8254.3	8259.0	8263.8	8268.5	8273.3	8278.1	8282.8	8287.6	8292.3	4.76
2437.	8202.1	8206.8	8211.6	8216.3	8221.1	8225.8	8230.5	8235.3	8240.0	8244.8	4.74
2436.	8154.8	8159.5	8164.3	8169.0	8173.7	8178.5	8183.2	8187.9	8192.6	8197.4	4.73
2435.	8107.8	8112.5	8117.2	8121.9	8126.6	8131.3	8136.0	8140.7	8145.4	8150.1	4.70
2434.	8060.9	8065.6	8070.3	8075.0	8079.7	8084.4	8089.0	8093.7	8098.4	8103.1	4.69
2433.	8014.1	8018.8	8023.5	8028.1	8032.8	8037.5	8042.2	8046.9	8051.5	8056.2	4.68
2432.	7967.5	7972.2	7976.8	7981.5	7986.1	7990.8	7995.5	8000.1	8004.8	8009.4	4.66
2431.	7921.1	7925.7	7930.4	7935.0	7939.7	7944.3	7948.9	7953.6	7958.2	7962.9	4.64
2430.	7874.9	7879.5	7884.1	7888.8	7893.4	7898.0	7902.6	7907.2	7911.9	7916.5	4.62

Detailed Operating Plan for 1995-96

Exhibit 15 - MICA RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2429.	7828.8	7833.4	7838.0	7842.6	7847.2	7851.9	7856.5	7861.1	7865.7	7870.3	4.61
2428.	7782.9	7787.5	7792.1	7796.7	7801.3	7805.9	7810.4	7815.0	7819.6	7824.2	4.59
2427.	7737.2	7741.8	7746.3	7750.9	7755.5	7760.1	7764.6	7769.2	7773.8	7778.3	4.57
2426.	7691.6	7696.2	7700.7	7705.3	7709.8	7714.4	7719.0	7723.5	7728.1	7732.6	4.56
2425.	7646.2	7650.7	7655.3	7659.8	7664.4	7668.9	7673.4	7678.0	7682.5	7687.1	4.54
2424.	7600.9	7605.4	7610.0	7614.5	7619.0	7623.6	7628.1	7632.6	7637.1	7641.7	4.53
2423.	7555.9	7560.4	7564.9	7569.4	7573.9	7578.4	7582.9	7587.4	7591.9	7596.4	4.50
2422.	7511.0	7515.5	7520.0	7524.5	7529.0	7533.5	7537.9	7542.4	7546.9	7551.4	4.49
2421.	7466.2	7470.7	7475.2	7479.6	7484.1	7488.6	7493.1	7497.6	7502.0	7506.5	4.48
2420.	7421.6	7426.1	7430.5	7435.0	7439.4	7443.9	7448.4	7452.8	7457.3	7461.7	4.46
2419.	7377.2	7381.6	7386.1	7390.5	7395.0	7399.4	7403.8	7408.3	7412.7	7417.2	4.44
2418.	7333.0	7337.4	7341.8	7346.3	7350.7	7355.1	7359.5	7363.9	7368.4	7372.8	4.42
2417.	7288.9	7293.3	7297.7	7302.1	7306.5	7311.0	7315.4	7319.8	7324.2	7328.6	4.41
2416.	7245.0	7249.4	7253.8	7258.2	7262.6	7267.0	7271.3	7275.7	7280.1	7284.5	4.39
2415.	7201.3	7205.7	7210.0	7214.4	7218.8	7223.2	7227.5	7231.9	7236.3	7240.6	4.37
2414.	7157.7	7162.1	7166.4	7170.8	7175.1	7179.5	7183.9	7188.2	7192.6	7196.9	4.36
2413.	7114.3	7118.6	7123.0	7127.3	7131.7	7136.0	7140.3	7144.7	7149.0	7153.4	4.34
2412.	7071.0	7075.3	7079.7	7084.0	7088.3	7092.7	7097.0	7101.3	7105.6	7110.0	4.33
2411.	7028.0	7032.3	7036.6	7040.9	7045.2	7049.5	7053.8	7058.1	7062.4	7066.7	4.30
2410.	6985.1	6989.4	6993.7	6998.0	7002.3	7006.6	7010.8	7015.1	7019.4	7023.7	4.29
2409.	6942.3	6946.6	6950.9	6955.1	6959.4	6963.7	6968.0	6972.3	6976.5	6980.8	4.28
2408.	6899.7	6904.0	6908.2	6912.5	6916.7	6921.0	6925.3	6929.5	6933.8	6938.0	4.26
2407.	6857.3	6861.5	6865.8	6870.0	6874.3	6878.5	6882.7	6887.0	6891.2	6895.5	4.24
2406.	6815.1	6819.3	6823.5	6827.8	6832.0	6836.2	6840.4	6844.6	6848.9	6853.1	4.22
2405.	6773.0	6777.2	6781.4	6785.6	6789.8	6794.1	6798.3	6802.5	6806.7	6810.9	4.21

Detailed Operating Plan for 1995-96

Exhibit 15 - MICA RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2404.	6731.1	6735.3	6739.5	6743.7	6747.9	6752.1	6756.2	6760.4	6764.6	6768.8	4.19
2403.	6689.4	6693.6	6697.7	6701.9	6706.1	6710.3	6714.4	6718.6	6722.8	6726.9	4.17
2402.	6647.8	6652.0	6656.1	6660.3	6664.4	6668.6	6672.8	6676.9	6681.1	6685.2	4.16
2401.	6606.4	6610.5	6614.7	6618.8	6623.0	6627.1	6631.2	6635.4	6639.5	6643.7	4.14
2400.	6565.1	6569.2	6573.4	6577.5	6581.6	6585.8	6589.9	6594.0	6598.1	6602.3	4.13
2399.	6524.1	6528.2	6532.3	6536.4	6540.5	6544.6	6548.7	6552.8	6556.9	6561.0	4.10
2398.	6483.4	6487.5	6491.5	6495.6	6499.7	6503.8	6507.8	6511.9	6516.0	6520.0	4.07
2397.	6443.0	6447.0	6451.1	6455.1	6459.2	6463.2	6467.2	6471.3	6475.3	6479.4	4.04
2396.	6403.0	6407.0	6411.0	6415.0	6419.0	6423.0	6427.0	6431.0	6435.0	6439.0	4.00
2395.	6363.4	6367.4	6371.3	6375.3	6379.2	6383.2	6387.2	6391.1	6395.1	6399.0	3.96
2394.	6324.1	6328.0	6332.0	6335.9	6339.8	6343.8	6347.7	6351.6	6355.5	6359.5	3.93
2393.	6285.1	6289.0	6292.9	6295.8	6300.7	6304.6	6308.5	6312.4	6316.3	6320.2	3.90
2392.	6240.4	6250.3	6254.1	6258.0	6261.9	6265.7	6269.6	6273.5	6277.4	6281.2	3.87
2391.	6208.1	6211.9	6215.8	6219.6	6223.4	6227.2	6231.1	6234.9	6238.7	6242.6	3.83
2390.	6170.1	6173.9	6177.7	6181.5	6185.3	6189.1	6192.9	6196.7	6200.5	6204.3	3.80
2389.	6132.4	6136.2	6140.0	6143.7	6147.5	6151.2	6155.0	6158.8	6162.6	6166.3	3.77
2388.	6095.1	6098.8	6102.5	6106.3	6110.0	6113.7	6117.5	6171.2	6124.9	6128.7	3.74
2387.	6058.0	6061.7	6065.4	6069.1	6072.8	6076.5	6080.2	6083.9	6087.6	6091.4	3.71
2386.	6021.2	6024.9	6028.6	6032.2	6035.8	6039.6	6043.3	6046.9	6050.6	6054.3	3.68
2385.	5984.8	5988.4	5992.0	5995.7	5999.3	6003.0	6006.6	6010.3	6013.9	6017.6	3.65
2384.	5946.6	5952.2	5955.8	5959.4	5963.0	5966.6	5970.3	5973.9	5977.5	5981.1	3.62
2383.	5912.7	5916.3	5919.8	5923.5	5927.0	5930.6	5934.2	5937.8	5941.4	5945.0	3.59
2382.	5677.1	5880.6	5884.2	5887.7	5891.3	5894.8	5896.4	5902.0	5905.5	5909.1	3.56
2381.	5841.7	5845.2	5884.2	5852.3	5855.8	5859.4	5862.9	5866.4	5870.0	5873.5	3.53
2380.	5806.7	5610.1	5613.6	5817.1	5820.6	5824.2	5827.7	5831.2	5834.7	5836.2	3.51

Detailed Operating Plan for 1995-96

Exhibit 15 - MICA RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2379.	5771.9	5775.3	5778.8	5782.3	5785.7	5789.2	5792.7	5796.2	5799.7	5803.2	3.48
2378.	5737.3	5740.8	5774.2	5747.6	5751.1	5754.5	5758.0	5761.5	5764.9	5766.4	3.45
2377.	5703.0	5706.4	5709.9	5713.3	5716.7	5720.1	5723.6	5727.0	5730.4	5733.9	3.43
2376.	5669.0	5672.4	5675.8	5679.2	5682.6	5686.0	5689.4	5692.8	5696.2	5699.6	3.40
2375.	5635.2	5638.6	5642.0	5645.3	5648.7	5652.1	5655.5	5658.8	5662.2	5665.6	3.38
2374.	5601.7	5605.0	5608.4	5611.7	5615.1	5618.4	5621.8	5625.1	5628.5	5631.9	3.35
2373.	5568.4	5571.7	5575.0	5578.4	5581.7	5585.0	5588.3	5591.7	5595.0	5598.3	3.33
2372.	5535.3	5538.6	5541.9	5545.2	5548.5	5551.8	5555.1	5558.5	5561.8	5565.1	3.31
2371.	5502.5	5505.8	5509.1	5512.3	5515.6	5518.9	5522.2	5525.5	5528.8	5532.0	3.28
2370.	5469.9	5473.2	5476.4	5479.7	5482.9	5486.2	5489.5	5492.7	5496.0	5499.2	3.26
2369.	5437.6	5440.8	5444.0	5447.2	5450.5	5453.7	5456.9	5460.2	5463.4	5466.7	3.24
2368.	5405.4	5408.6	5411.8	5415.0	5418.2	5421.4	5424.7	5427.9	5431.1	5434.3	3.21
2367.	5373.5	5376.7	5379.8	5383.0	5386.2	5389.4	5392.6	5395.8	5399.0	5402.2	3.19
2366.	5341.7	5344.9	5348.1	5351.2	5354.4	5357.6	5360.8	5363.9	5367.1	5370.3	3.17
2365.	5310.2	5313.4	5316.5	5319.7	5322.8	5326.0	5329.1	5332.3	5335.4	5338.6	3.15
2364.	5276.9	5282.0	5285.2	5288.3	5291.4	5294.6	5297.7	5300.8	5304.0	5307.1	3.13
2363.	5247.8	5250.9	5254.0	5257.1	5260.2	5263.3	5266.5	5269.6	5272.7	5275.8	3.11
2362.	5216.9	5220.0	5223.1	5226.2	5229.3	5232.3	5235.4	5238.5	5241.5	5244.7	3.09
2361.	5186.2	5189.3	5192.3	5195.4	5198.5	5201.5	5204.6	5207.7	5210.6	5213.8	3.07
2360.	5155.7	5158.7	5161.6	5164.8	5167.9	5170.9	5174.0	5177.0	5180.1	5183.1	3.05
2359.	5125.3	5128.4	5131.4	5134.4	5137.4	5140.5	5143.5	5146.6	5149.6	5152.6	3.03
2358.	5095.2	5098.2	5101.2	5104.2	5107.2	5110.2	5113.3	5116.3	5119.3	5122.3	3.02
2357.	5065.2	5068.2	5071.2	5074.2	5077.2	5080.2	5083.2	5086.2	5089.2	5092.2	3.00
2356.	5035.4	5036.4	5041.4	5044.3	5047.3	5050.3	5053.3	5056.2	5059.2	5062.2	2.98
2355.	5055.8	5008.7	5011.7	5014.7	5017.6	5020.6	5023.5	5026.5	5029.5	5032.4	2.96

Detailed Operating Plan for 1995-96

Exhibit 15 - MICA RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2354.	4976.3	4979.3	4982.2	4985.1	4988.1	4991.0	4994.0	4996.9	4999.9	5002.8	2.95
2353.	4947.0	4950.0	4952.9	4955.8	4958.7	4961.7	4964.6	4967.5	4970.5	4973.4	2.93
2352.	4917.9	4920.8	4923.7	4926.6	4929.5	4932.4	4935.4	4938.3	4941.2	4944.1	2.91
2351.	4886.9	4891.8	4894.7	4897.6	4900.5	4903.4	4906.3	4909.2	4912.1	4915.0	2.90
2350.	4860.1	4863.0	4865.9	4868.8	4871.6	4874.5	4877.4	4880.3	4883.2	4886.1	2.88
2349.	4831.5	4834.3	4837.2	4840.1	4842.9	4845.8	4848.6	4851.5	4654.4	4857.3	2.87
2348.	4803.0	4805.8	4808.7	4811.5	4814.3	4817.2	4820.1	4822.9	4825.8	4828.6	2.85
2347.	4774.6	4777.4	4780.3	4783.1	4785.9	4788.8	4791.6	4794.4	4797.3	4800.1	2.84
2346.	4746.4	4749.2	4752.0	4754.8	4757.7	4760.5	4763.3	4766.1	4768.9	4771.8	2.82
2345.	4718.3	4721.1	4723.9	4726.7	4729.5	4732.3	4735.1	4738.0	4740.8	4743.6	2.81
2344.	4690.4	4693.2	4696.0	4698.7	4701.5	4704.3	4707.1	4709.9	4712.7	4715.5	2.79
2343.	4662.6	4665.4	4668.1	4670.9	4673.7	4676.5	4679.2	4682.0	4684.8	4687.6	2.78
2342.	4634.9	4637.7	4640.4	4643.2	4646.0	4648.7	4651.5	4654.3	4657.0	4659.8	2.77
2341.	4607.4	4610.1	4612.9	4615.6	4618.4	4621.1	4623.9	4626.6	4629.4	4632.2	2.75
2340.	4580.0	4582.7	4585.4	4588.2	4590.9	4593.7	4596.4	4599.1	4601.9	4604.6	2.74
2339.	4552.7	4555.4	4558.1	4560.8	4563.6	4566.3	4569.0	4571.6	4574.5	4577.2	2.73
2338.	4525.4	4528.1	4530.9	4533.6	4536.3	4539.0	4541.7	4544.5	4547.2	4549.9	2.72
2337.	4498.3	4501.0	4503.7	4506.4	4509.1	4511.8	4514.5	4517.3	4520.0	4522.7	2.72
2336.	4471.2	4473.9	4476.6	4479.3	4482.0	4484.7	4487.4	4490.1	4492.8	4495.5	2.71
2335.	4444.1	4446.8	4449.5	4452.2	4454.9	4457.6	4460.3	4463.1	4465.8	4468.5	2.70
2334.	4417.2	4419.9	4422.6	4425.3	4428.0	4430.7	4433.4	4436.1	4438.8	4441.4	2.69
2333.	4390.3	4393.0	4395.7	4398.4	4401.1	4403.8	4406.5	4409.1	4411.8	4414.5	2.69
2332.	4363.6	4366.2	4368.9	4371.6	4374.3	4376.9	4379.6	4382.3	4385.0	4387.7	2.68
2331.	4336.8	4339.5	4342.2	4344.9	4347.5	4350.2	4352.9	4355.5	4358.2	4360.9	2.67
2330.	4310.2	4312.9	4315.5	4318.2	4320.9	4323.5	4326.2	4328.8	4331.5	4334.2	2.66

Detailed Operating Plan for 1995-96

Exhibit 15 - MICA RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2329.	4283.6	4286.3	4289.0	4291.6	4294.3	4296.9	4299.6	4302.2	4304.9	4307.6	2.66
2328.	4257.2	4259.8	4262.5	4265.1	4267.8	4270.4	4273.0	4275.7	4278.3	4281.0	2.65
2327.	4230.8	4233.4	4236.0	4238.7	4241.3	4244.0	4246.6	4249.2	4251.9	4254.5	2.64
2326.	4204.4	4207.1	4209.7	4212.3	4215.0	4217.6	4220.2	4222.9	4225.5	4228.1	2.63
2325.	4178.2	4160.8	4183.4	4186.1	4188.7	4191.3	4193.9	4196.6	4199.2	4201.8	2.62
2324.	4152.0	4154.6	4157.2	4159.9	4162.5	4165.1	4167.7	4170.3	4172.9	4175.6	2.62
2323.	4125.9	4128.5	4131.1	4133.7	4136.3	4139.0	4141.6	4144.2	4146.8	4149.4	2.61
2322.	4099.9	4102.5	4105.1	4107.7	4110.3	4112.9	4115.5	4118.1	4120.7	4123.3	2.60
2321.	4074.0	4076.6	4079.1	4081.7	4084.3	4086.9	4089.5	4092.1	4094.7	4097.3	2.59
2320.	4048.1	4050.7	4053.3	4055.9	4058.4	4061.0	4063.6	4066.2	4068.8	4071.4	2.59

Detailed Operating Plan for 1995-96

Exhibit 16 - LIBBY RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT	
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9		
2459.	2510.5											
2458.	2487.1	2489.4	2491.8	2494.1	2496.5	2498.8	2501.1	2503.5	2505.8	2508.2	2.34	
2457.	2463.8	2466.1	2468.5	2470.8	2473.1	2475.4	2477.8	2480.1	2482.4	2484.8	2.33	
2456.	2440.6	2442.9	2445.2	2447.6	2449.9	2452.2	2454.5	2456.8	2459.2	2461.5	2.32	
2455.	2417.5	2419.8	2422.1	2424.4	2426.7	2429.0	2431.4	2433.7	2436.0	2438.3	2.31	
2454.	2394.5	2396.8	2399.1	2401.4	2403.7	2406.0	2408.3	2410.6	2412.9	2415.2	2.30	
2453.	2371.6	2373.9	2376.2	2378.5	2380.8	2383.0	2385.3	2387.6	2389.9	2392.2	2.29	
2452.	2348.8	2351.1	2353.4	2355.6	2357.9	2360.2	2362.5	2364.8	2367.0	2369.3	2.28	
2451.	2326.1	2328.4	2330.6	2332.9	2335.2	2337.4	2339.7	2342.0	2344.3	2346.5	2.27	
2450.	2303.4	2305.7	2307.9	2310.2	2312.5	2314.7	2317.0	2319.3	2321.6	2323.8	2.27	
2449.	2280.9	2283.1	2285.4	2287.6	2289.9	2292.1	2294.4	2296.6	2298.9	2301.1	2.25	
2448.	2258.4	2260.6	2262.9	2265.1	2267.4	2269.6	2271.9	2274.1	2276.4	2278.6	2.25	
2447.	2236.1	2238.3	2240.6	2242.8	2245.0	2247.2	2249.5	2251.7	2253.9	2256.2	2.23	
2446.	2213.8	2216.0	2218.3	2220.5	2222.7	2224.9	2227.2	2229.4	2231.6	2233.9	2.23	
2445.	2191.7	2193.9	2196.1	2198.3	2200.5	2202.7	2205.0	2207.2	2209.4	2211.6	2.21	
2444.	2170.0	2172.2	2174.3	2176.5	2178.7	2180.8	2183.0	2185.2	2187.4	2189.5	2.17	
2443.	2147.7	2149.9	2152.2	2154.4	2156.6	2158.8	2161.1	2163.3	2165.5	2167.8	2.23	
2442.	2125.9	2128.1	2130.3	2132.4	2134.6	2136.8	2139.0	2141.2	2143.3	2145.5	2.18	
2441.	2104.1	2106.3	2108.5	2110.6	2112.8	2115.0	2117.2	2119.4	2121.5	2123.7	2.18	
2440.	2082.5	2084.7	2086.8	2089.0	2091.1	2093.3	2095.5	2097.6	2099.8	2101.9	2.16	
2439.	2061.0	2063.1	2065.3	2067.4	2069.6	2071.7	2073.9	2076.0	2078.2	2080.3	2.15	
2438.	2039.5	2041.6	2043.8	2045.9	2048.1	2050.2	2052.4	2054.5	2056.7	2058.8	2.15	
2437.	2018.2	2020.3	2022.5	2024.6	2026.7	2028.8	2031.0	2033.1	2035.2	2037.4	2.13	
2436.	1997.0	1999.1	2001.2	2003.4	2005.5	2007.6	2009.7	2011.8	2014.0	2016.1	2.12	
2435.	1975.9	1978.0	1980.1	1982.2	1984.3	1986.4	1988.6	1990.7	1992.8	1994.9	2.11	

Exhibit 16

Detailed Operating Plan for 1995-96

Exhibit 16 - LIBBY RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2434.	1954.9	1957.0	1959.1	1961.2	1963.3	1965.4	1967.5	1969.6	1971.7	1973.8	2.10
2433.	1934.0	1936.1	1938.2	1940.3	1942.4	1944.4	1946.5	1948.6	1950.7	1952.8	2.09
2432.	1913.2	1915.3	1917.4	1919.4	1921.5	1923.6	1925.7	1927.8	1929.8	1931.9	2.08
2431.	1892.5	1894.6	1896.6	1898.7	1900.8	1902.8	1904.9	1907.0	1909.1	1911.1	2.07
2430.	1871.9	1874.0	1876.0	1878.1	1880.1	1882.2	1884.3	1886.3	1888.4	1890.4	2.06
2429.	1851.4	1853.4	1855.5	1857.5	1859.6	1861.6	1863.7	1865.7	1867.8	1869.8	2.05
2428.	1831.0	1833.0	1835.1	1837.1	1839.2	1841.2	1843.2	1845.3	1847.3	1849.4	2.04
2427.	1810.7	1812.7	1814.8	1816.8	1818.8	1820.8	1822.9	1824.9	1826.9	1829.0	2.03
2426.	1790.6	1792.6	1794.6	1796.6	1798.6	1800.6	1802.7	1804.7	1806.7	1808.7	2.01
2425.	1770.5	1772.5	1774.5	1776.5	1778.5	1780.5	1782.6	1784.6	1786.6	1788.6	2.01
2424.	1750.6	1752.6	1754.6	1756.6	1758.6	1760.5	1762.5	1764.5	1766.5	1768.5	1.99
2423.	1730.8	1732.8	1734.8	1736.7	1738.7	1740.7	1742.7	1744.7	1746.6	1748.6	1.98
2422.	1711.1	1713.1	1715.0	1717.0	1719.0	1720.9	1722.9	1724.9	1726.9	1728.8	1.97
2421.	1691.5	1693.5	1695.4	1697.4	1699.3	1701.3	1703.3	1705.2	1707.2	1709.1	1.96
2420.	1672.0	1673.9	1675.9	1677.8	1679.8	1681.7	1683.7	1685.6	1687.6	1689.5	1.95
2419.	1652.6	1654.5	1656.5	1658.4	1660.4	1662.3	1664.2	1666.2	1668.1	1670.1	1.94
2418.	1633.3	1635.2	1637.2	1639.1	1641.0	1642.9	1644.9	1646.8	1648.7	1650.7	1.93
2417.	1614.2	1616.1	1618.0	1619.9	1621.8	1623.7	1625.7	1627.6	1629.5	1631.4	1.91
2416.	1595.2	1597.1	1599.0	1600.9	1602.8	1604.7	1606.6	1608.5	1610.4	1612.3	1.90
2415.	1576.3	1578.2	1580.1	1582.0	1583.9	1585.7	1587.6	1589.5	1591.4	1593.3	1.89
2414.	1557.5	1559.4	1561.3	1563.1	1565.0	1566.9	1568.8	1570.7	1572.5	1574.4	1.88
2413.	1538.9	1540.8	1542.6	1544.5	1546.3	1548.2	1550.1	1551.9	1553.8	1555.6	1.86
2412.	1520.3	1522.2	1524.0	1525.9	1527.7	1529.6	1531.5	1533.3	1535.2	1537.0	1.86
2411.	1501.9	1503.7	1505.6	1507.4	1509.3	1511.1	1512.9	1514.8	1516.6	1518.5	1.84
2410.	1483.6	1485.4	1487.3	1489.1	1490.9	1492.7	1494.6	1496.4	1498.2	1500.1	1.83

Detailed Operating Plan for 1995-96

Exhibit 16 - LIBBY RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2409.	1465.5	1467.3	1469.1	1470.9	1472.7	1474.5	1476.4	1478.2	1480.0	1481.8	1.81
2408.	1447.6	1449.4	1451.2	1453.0	1454.8	1456.5	1458.3	1460.1	1461.9	1463.7	1.79
2407.	1429.7	1431.5	1433.3	1435.1	1436.9	1438.6	1440.4	1442.2	1444.0	1445.8	1.79
2406.	1412.1	1413.9	1415.6	1417.4	1419.1	1420.9	1422.7	1424.4	1426.2	1427.9	1.76
2405.	1394.6	1396.3	1398.1	1399.8	1401.6	1403.3	1405.1	1406.8	1408.6	1410.3	1.75
2404.	1377.4	1379.1	1380.8	1382.6	1384.3	1386.0	1387.7	1389.4	1391.2	1392.9	1.72
2403.	1360.3	1362.0	1363.7	1365.4	1367.1	1368.8	1370.6	1372.3	1374.0	1375.7	1.71
2402.	1343.3	1345.0	1346.7	1348.4	1350.1	1351.8	1353.5	1355.2	1356.9	1358.6	1.70
2401.	1326.6	1328.3	1329.9	1331.6	1333.3	1334.9	1336.6	1338.3	1340.0	1341.6	1.67
2400.	1310.0	1311.7	1313.3	1315.0	1316.6	1318.3	1320.0	1321.6	1323.3	1324.9	1.66
2399.	1293.6	1295.2	1296.9	1298.5	1300.2	1301.8	1303.4	1305.1	1306.7	1308.4	1.64
2398.	1277.3	1278.9	1280.6	1282.2	1283.8	1285.4	1287.1	1288.7	1290.3	1292.0	1.63
2397.	1261.2	1262.8	1264.4	1266.0	1267.6	1269.2	1270.9	1272.5	1274.1	1275.7	1.61
2396.	1245.2	1246.8	1248.4	1250.0	1251.6	1253.2	1254.8	1256.4	1258.0	1259.6	1.60
2395.	1229.4	1231.0	1232.6	1234.1	1235.7	1237.3	1238.9	1240.5	1242.0	1243.6	1.58
2394.	1213.7	1215.3	1216.8	1218.4	1220.0	1221.5	1223.1	1224.7	1226.3	1227.8	1.57
2393.	1198.1	1199.7	1201.2	1202.8	1204.3	1205.9	1207.5	1209.0	1210.6	1212.1	1.56
2392.	1182.8	1184.3	1185.9	1187.4	1188.9	1190.4	1192.0	1193.5	1195.0	1196.6	1.53
2391.	1167.5	1169.0	1170.6	1172.1	1173.6	1175.1	1176.7	1178.2	1179.7	1181.3	1.53
2390.	1152.4	1153.9	1155.4	1156.9	1158.4	1159.9	1161.5	1163.0	1164.5	1166.0	1.51
2389.	1137.4	1138.9	1140.4	1141.9	1143.4	1144.9	1146.4	1147.9	1149.4	1150.9	1.50
2388.	1122.5	1124.0	1125.5	1127.0	1128.5	1129.9	1131.4	1132.9	1134.4	1135.9	1.49
2387.	1107.7	1109.2	1110.7	1112.1	1113.6	1115.1	1116.6	1118.1	1119.5	1121.0	1.48
2386.	1093.0	1094.5	1095.9	1097.4	1098.9	1100.3	1101.8	1103.3	1104.8	1106.2	1.47
2385.	1078.4	1079.9	1081.3	1082.8	1084.2	1085.7	1087.2	1088.6	1090.1	1091.5	1.46

Detailed Operating Plan for 1995-96

Exhibit 16 - LIBBY RESERVOIR CAPACITY TABLE

ELEVATION IN FEET	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	AVERAGE DIFFERENCE PER TENTH FT
2384.	1063.8	1065.3	1066.7	1068.2	1069.6	1071.1	1072.6	1074.0	1075.5	1076.9	1.46
2383.	1049.3	1050.7	1052.2	1053.6	1055.1	1056.5	1058.0	1059.4	1060.9	1062.3	1.45
2382.	1034.9	1036.3	1037.8	1039.2	1040.7	1042.1	1043.5	1045.0	1046.4	1047.9	1.44
2381.	1020.6	1022.0	1023.5	1024.9	1026.3	1027.7	1029.2	1030.6	1032.0	1033.5	1.43
2380.	1006.3	1007.7	1009.2	1010.6	1012.0	1013.4	1014.9	1016.3	1017.7	1019.2	1.43
2379.	992.2	993.6	995.0	996.4	997.8	999.2	1000.7	1002.1	1003.5	1004.9	1.41
2378.	978.1	979.5	980.9	982.3	983.7	985.1	986.6	988.0	989.4	990.8	1.41
2377.	964.1	965.5	966.9	968.3	969.7	971.1	972.5	973.9	975.3	976.7	1.40
2376.	950.2	951.6	953.0	954.4	955.8	957.1	958.5	959.9	961.3	962.7	1.39
2375.	936.3	937.7	939.1	940.5	941.9	943.2	944.6	946.0	947.4	948.8	1.39
2374.	922.5	923.9	925.3	926.6	928.0	929.4	930.8	932.2	933.5	934.9	1.38
2373.	908.8	910.2	911.5	912.9	914.3	915.6	917.0	918.4	919.8	921.1	1.37
2372.	895.2	896.6	897.9	899.3	900.6	902.0	903.4	904.7	906.1	907.4	1.36
2371.	881.6	883.0	884.3	885.7	887.0	888.4	889.8	891.1	892.5	893.8	1.36
2370.	868.1	869.4	870.8	872.1	873.5	874.8	876.2	877.5	878.9	880.2	1.35
2369.	854.7	856.0	857.4	858.7	860.1	861.4	862.7	864.1	865.4	866.8	1.34
2368.	841.3	842.6	844.0	845.3	846.7	848.0	849.3	850.7	852.0	853.4	1.34
2367.	828.1	829.4	830.7	832.1	833.4	834.7	836.0	837.3	838.7	840.0	1.32
2366.	815.0	816.3	817.6	818.9	820.2	821.5	822.9	824.2	825.5	826.8	1.31
2365.	801.9	803.2	804.5	805.8	807.1	808.4	809.8	811.1	812.4	813.7	1.31
2364.	788.9	790.2	791.5	792.8	794.1	795.4	796.7	798.0	799.3	800.6	1.30
2363.	776.0	777.3	778.6	779.9	781.2	782.4	783.7	785.0	786.3	787.6	1.29
2362.	763.2	764.5	765.8	767.0	768.3	769.6	770.9	772.2	773.4	774.7	1.28
2361.	750.5	751.8	753.0	754.3	755.6	756.8	758.1	759.4	760.7	761.9	1.27
2360.	737.9	739.2	740.4	741.7	742.9	744.2	745.5	746.7	748.0	749.2	1.26

Detailed Operating Plan for 1995-96

Exhibit 16 - LIBBY RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2359.	725.3	726.6	727.8	729.1	730.3	731.6	732.9	734.1	735.4	736.6	1.26
2358.	712.8	714.0	715.3	716.5	717.8	719.0	720.3	721.5	722.8	724.0	1.25
2357.	700.4	701.6	702.9	704.1	705.4	706.6	707.8	709.1	710.3	711.6	1.24
2356.	688.0	689.2	690.5	691.7	693.0	694.2	695.4	696.7	697.9	699.2	1.24
2355.	675.7	676.9	678.2	679.4	680.6	681.8	683.1	684.3	685.5	686.8	1.23
2354.	663.5	664.7	665.9	667.2	668.4	669.6	670.8	672.0	673.3	674.5	1.22
2353.	651.4	652.6	653.8	655.0	656.2	657.4	658.7	659.9	661.1	662.3	1.21
2352.	639.3	640.5	641.7	642.9	644.1	645.3	646.6	647.8	649.0	650.2	1.21
2351.	627.3	628.5	629.7	630.9	632.1	633.3	634.5	635.7	636.9	638.1	1.20
2350.	615.3	616.5	617.7	618.9	620.1	621.3	622.5	623.7	624.9	626.1	1.20
2349.	603.4	604.6	605.8	607.0	608.2	609.3	610.5	611.7	612.9	614.1	1.19
2348.	591.6	592.8	594.0	595.1	596.3	597.5	598.7	599.9	601.0	602.2	1.18
2347.	579.8	581.0	582.2	583.3	584.5	585.7	586.9	588.1	589.2	590.4	1.18
2346.	568.1	569.3	570.4	571.6	572.8	573.9	575.1	576.3	577.5	578.6	1.17
2345.	556.5	557.7	558.8	560.0	561.1	562.3	563.5	564.6	565.8	566.9	1.16
2344.	544.9	546.1	547.2	548.4	549.5	550.7	551.9	553.0	554.2	555.3	1.16
2343.	533.4	534.5	535.7	536.8	538.0	539.1	540.3	541.4	542.6	543.7	1.15
2342.	521.9	523.0	524.2	525.3	526.5	527.6	528.8	529.9	531.1	532.2	1.15
2341.	510.5	511.6	512.8	513.9	515.1	516.2	517.3	518.5	519.6	520.8	1.14
2340.	499.2	500.3	501.5	502.6	503.7	504.8	506.0	507.1	508.2	509.4	1.13
2339.	488.0	489.1	490.2	491.4	492.5	493.6	494.7	495.8	497.0	498.1	1.12
2338.	476.7	477.8	479.0	480.1	481.2	482.3	483.5	484.6	485.7	486.9	1.13
2337.	465.6	466.7	467.8	468.9	470.0	471.1	472.3	473.4	474.5	475.6	1.11
2336.	454.5	455.6	456.7	457.8	458.9	460.0	461.2	462.3	463.4	464.5	1.11
2335.	443.5	444.6	445.7	446.8	447.9	449.0	450.1	451.2	452.3	453.4	1.10

Detailed Operating Plan for 1995-96

Exhibit 16 - LIBBY RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2334.	432.6	433.7	434.8	435.9	437.0	438.0	439.1	440.2	441.3	442.4	1.09
2333.	421.7	422.8	423.9	425.0	426.1	427.1	428.2	429.3	430.4	431.5	1.09
2332.	410.8	411.9	413.0	414.1	415.2	416.2	417.3	418.4	419.5	420.6	1.09
2331.	400.1	401.2	402.2	403.3	404.4	405.4	406.5	407.6	408.7	409.7	1.07
2330.	389.3	390.4	391.5	392.5	393.6	394.7	395.8	396.9	397.9	399.0	1.08
2329.	378.7	379.8	380.8	381.9	382.9	384.0	385.1	386.1	387.2	388.2	1.06
2328.	368.2	369.2	370.3	371.3	372.4	373.4	374.5	375.5	376.6	377.6	1.05
2327.	357.8	358.8	359.9	360.9	362.0	363.0	364.0	365.1	366.1	367.2	1.04
2326.	347.4	348.4	349.5	350.5	351.6	352.6	353.6	354.7	355.7	356.8	1.04
2325.	337.1	338.1	339.2	340.2	341.2	342.2	343.3	344.3	345.3	346.4	1.03
2324.	327.0	328.0	329.0	330.0	331.0	332.0	333.1	334.1	335.1	336.1	1.01
2323.	316.9	317.9	318.9	319.9	320.9	321.9	323.0	324.0	325.0	326.0	1.01
2322.	306.9	307.9	308.9	309.9	310.9	311.9	312.9	313.9	314.9	315.9	1.00
2321.	297.0	298.0	299.0	300.0	301.0	301.9	302.9	303.9	304.9	305.9	0.99
2320.	287.2	288.2	289.2	290.1	291.1	292.1	293.1	294.1	295.0	296.0	0.98
2319.	277.5	278.5	279.4	280.4	281.4	282.3	283.3	284.3	285.3	286.2	0.97
2318.	267.8	268.8	269.7	270.7	271.7	272.6	273.6	274.6	275.6	276.5	0.97
2317.	258.2	259.2	260.1	261.1	262.0	263.0	264.0	264.9	265.9	266.8	0.96
2316.	248.7	249.6	250.6	251.5	252.5	253.4	254.4	255.3	256.3	257.2	0.95
2315.	239.1	240.1	241.0	242.0	242.9	243.9	244.9	245.8	246.8	247.7	0.96
2314.	229.7	230.6	231.6	232.5	233.5	234.4	235.3	236.3	237.2	238.2	0.94
2313.	220.3	221.2	222.2	223.1	224.1	225.0	225.9	226.9	227.8	228.8	0.94
2312.	210.9	211.8	212.8	213.7	214.7	215.6	216.5	217.5	218.4	219.4	0.94
2311.	201.6	202.5	203.5	204.4	205.3	206.2	207.2	208.1	209.0	210.0	0.93
2310.	192.3	193.2	194.2	195.1	196.0	196.9	197.9	198.8	199.7	200.7	0.93

Detailed Operating Plan for 1995-96

Exhibit 16 - LIBBY RESERVOIR CAPACITY TABLE

ELEVATION IN FEET											AVERAGE DIFFERENCE PER TENTH FT
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
2309.	183.1	184.0	184.9	185.9	186.8	187.7	188.6	189.5	190.5	191.4	0.92
2308.	174.0	174.9	175.8	176.7	177.6	178.5	179.5	180.4	181.3	182.2	0.91
2307.	164.9	165.8	166.7	167.6	168.5	169.4	170.4	171.3	172.2	173.1	0.91
2306.	155.9	156.8	157.7	158.6	159.5	160.4	161.3	162.2	163.1	164.0	0.90
2305.	146.9	147.8	148.7	149.6	150.5	151.4	152.3	153.2	154.1	155.0	0.90
2304.	138.1	139.0	139.9	140.7	141.6	142.5	143.4	144.3	145.1	146.0	0.88
2303.	129.3	130.2	131.1	131.9	132.8	133.7	134.6	135.5	136.3	137.2	0.88
2302.	120.5	121.4	122.3	123.1	124.0	124.9	125.8	126.7	127.5	128.4	0.88
2301.	111.8	112.7	113.5	114.4	115.3	116.1	117.0	117.9	118.8	119.6	0.87
2300.	103.2	104.1	104.9	105.8	106.6	107.5	108.4	109.2	110.1	110.9	0.86
2299.	99.2	99.6	100.0	100.4	100.8	101.2	101.6	102.0	102.4	102.8	0.40
2298.	86.2	87.5	88.8	90.1	91.4	92.7	94.0	95.3	96.6	97.9	1.30
2297.	81.6	82.1	82.5	83.0	83.4	83.9	84.4	84.8	85.3	85.7	0.46
2296.	69.7	70.9	72.1	73.3	74.5	75.6	76.8	78.0	79.2	80.4	1.19
2295.	61.5	62.3	63.1	64.0	64.8	65.6	66.4	67.2	68.1	68.9	0.82
2294.	53.5	54.3	55.1	55.9	56.7	57.5	58.3	59.1	59.9	60.7	0.80
2293.	45.6	46.4	47.2	48.0	48.8	49.5	50.3	51.1	51.9	52.7	0.79
2292.	39.2	39.8	40.5	41.1	41.8	42.4	43.0	43.7	44.3	45.0	0.64
2291.	30.0	30.9	31.8	32.8	33.7	34.6	35.5	36.4	37.4	38.3	0.92
2290.	22.4	23.2	23.9	24.7	25.4	26.2	27.0	27.7	28.5	29.2	0.76
2289.	14.8	15.6	16.3	17.1	17.8	18.6	19.4	20.1	20.9	21.6	0.76
2288.	7.4	8.1	8.9	9.6	10.4	11.1	11.8	12.6	13.3	14.1	0.74
2287.	0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	0.74