

1 **1. Introduction and Background**
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3 A Drought Response Operations Plan (Plan) for a given Plan year covers the period from May 1
4 to April 30 of the following year (Plan Year). However, the Parties recognize the need to
5 implement DROA Releases in 2026 prior to May 1 to coincide with the early spring peak
6 resulting from abnormally dry and warm conditions. A Plan describes planning procedures and
7 processes needed to support a proposed Drought Response Operation under the Drought
8 Response Operating Agreement (DROA).¹ A Plan is divided into two general components: 1) this
9 Framework document (Framework) contains provisions the DROA Parties will use to develop
10 yearly Plans and will remain relatively unchanged from year to year; and 2) attachments to this
11 Framework (Attachments) identify Drought Response Operations for the year's Plan and will be
12 updated annually and modified as needed during each Plan Year. This Framework and its
13 Attachments together constitute the Plan for that Plan Year. The DROA Parties may amend Plans
14 as necessary based upon changing conditions. Drought Response Operations described in any
15 Plan include operational adjustments, releases, and recovery within or from the Colorado River
16 Storage Project Initial Units (Lake Powell, Flaming Gorge, Aspinall, and Navajo) under DROA.
17 This Framework and its 2026 Attachments together constitute the 2026 Plan.

18 All Plans will describe annual Drought Response Operations for the Plan Year, unless otherwise
19 specified.

20 This Framework is organized as follows:

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- 22 ● Section 2 briefly describes the authorities that govern Drought Response
23 Operations, including the basis for any proposed Drought Response Operations.²
- 24
- 25 ● Section 3 incorporates the summary of the information to be included in
26 Attachment A Part 1. Attachment A Part 1 describes the current and projected
27 hydrology for the applicable Plan.
- 28
- 29 ● Section 4 incorporates the summary of the information to be included in
30 Attachment A Part 2. Attachment A Part 2 describes the proposed Drought
31 Response Operations for the applicable Plan.
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- 33 ● Section 5 explains how DROA's criteria and principles are applied to develop
34 Drought Response Operations.

¹ DROA is one element of the package of documents known as the 2019 Colorado River Drought Contingency Plan (DCP). The DCP agreements in both the Upper Basin and Lower Basin provide tools to address the ongoing historic drought in the Colorado River Basin. The seven Colorado River Basin States submitted the DCP agreements to Congress, resulting in the "Colorado River Drought Contingency Plan Authorization Act," 2019 DCP Act, Pub. L. No. 116-14, 133 Stat. 850 (Apr. 16, 2019) ("the 2019 DCP Act"). Consistent with the 2019 DCP Act, the DCP agreements were executed in May of 2019, and the various DCP agreement parties have been implementing the agreements in the Upper and Lower Colorado River Basins since their execution.

² If there is a conflict between the content of this Plan and the provisions of DROA, the provisions of DROA control.

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- Section 6 describes the methods that will be used to account for water released and recovered pursuant to any implemented Plan.
- Section 7 describes the consultation, coordination, and outreach that the DROA Parties will conduct when developing and before finalizing a Plan.
- Section 8 describes monitoring and the process for potential Plan amendments during implementation of a Plan.

This Framework does not address “emergency action” under DROA. In DROA, the Department of the Interior (Department) committed to conduct any emergency action, “to the greatest extent practicable, with advance consultation and coordination with the Upper Division States, through the [Upper Colorado River] Commission, and following consultation with the Governors’ Representatives of the Colorado River Basin States.”³ The Department “retains all applicable authority to make release from [Colorado River Storage Project Act] Initial Units and perform subsequent recovery of storage operations if actual hydrology or actual operating experience demonstrate an imminent need to protect the Target Elevation at Lake Powell.”⁴ Any releases made under an emergency action are subject to recovery pursuant to DROA.

In response to a February 20, 2026, letter from the Upper Division States, acting through the Upper Colorado River Commission requesting engagement on DROA, Reclamation communicated on March 13, 2026, that the Secretary retains his authorities granted by Congress to operate the Upper Initial Units outside of the DROA process.

2. DROA Authorities

The operating principle of DROA is to minimize the risk of Lake Powell falling below a minimum “Target Elevation,” expressly defined as a water surface elevation of 3,525 ft.⁵ The Target Elevation was adopted to “minimiz[e] the risk of Lake Powell declining below minimum power pool (approximately elevation 3,490 feet msl) and to assist in maintaining Upper Division States’ compliance with the Colorado River Compact.”⁶ DROA states that the Target Elevation “appropriately balances the need to protect infrastructure, compact obligations, and operations at Glen Canyon Dam, as storage approaches minimum power pool with the Upper Division States’ rights to put Colorado River System water to beneficial use.”⁷ Section II of DROA further describes the purposes of the Target Elevation, and Section II(A)(2) specifically describes minimizing the risk of falling below elevation 3,490 feet msl at Lake Powell as one of the goals of

³ DROA §§ II(A)(3)(j) & II(A)(4)(e).

⁴ DROA §§ II(A)(3)(j).

⁵ DROA § II(A)(2) (defining “Target Elevation”).

⁶ DROA § II(A)(2).

⁷ DROA § II(A)(2).

73 DROA.

74
75 Maintaining Lake Powell elevation above the Target Elevation helps allow the upstream Initial
76 Units (Flaming Gorge, Aspinall, and Navajo) to continue to serve their Congressionally
77 authorized purposes. Those purposes are articulated in the authorizing Colorado River Storage
78 Project Act of 1956 (CRSPA):

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80 In order to initiate the comprehensive development of the water resources
81 of the Upper Colorado River Basin, for the purposes, among others, of regulating
82 the flow of the Colorado River, storing water for beneficial consumptive use,
83 making it possible for the States of the Upper Basin to utilize, consistently with the
84 provisions of the Colorado River Compact, the apportionments made to and among
85 them in the Colorado River Compact and the Upper Colorado River Basin
86 Compact, respectively, providing for the reclamation of arid and semiarid land, for
87 the control of floods, and for the generation of hydroelectric power, as an incident
88 of the foregoing purposes, the Secretary of the Interior is hereby authorized (1) to
89 construct, operate, and maintain the following initial units of the Colorado River
90 storage project, consisting of dams, reservoirs, powerplants, transmission facilities
91 and appurtenant works: Curecanti, Flaming Gorge, Navajo (dam and reservoir
92 only), and Glen Canyon

93
94 The purposes first articulated in the CRSPA were reinforced by Congress’ approval of DROA as
95 part of the 2019 Colorado River Drought Contingency Plan Authorization Act (“2019 DCP
96 Act”).⁸ DROA’s expressly stated “primary goals”⁹ concern “ensur[ing]” compact compliance,
97 “while exercising [Upper Division States’] rights to develop and utilize the Upper Colorado River
98 Basin’s (“Upper Basin”) Colorado River System compact apportionment,”¹⁰ “[m]aintain[ing] the
99 ability to generate hydropower at Glen Canyon Dam” for a variety of purposes,¹¹ and
100 “[m]inimiz[ing] adverse effects to resources and infrastructure in the Upper Basin.”¹² In support
101 of these authorized purposes and primary goals, DROA authorities and considerations attempt to
102 ensure that the purposes of the authorized facilities are not negatively affected by Lake Powell
103 falling below the Target Elevation and that actions taken to implement DROA minimize negative
104 impacts to the operation of the Initial Units and those who depend on the operation of those

⁸ 2019 DCP Act, Pub. L. No. 116-14, 133 Stat. 850 (Apr. 16, 2019).

⁹ DROA § I(A).

¹⁰ DROA § I(A)(1): “Help ensure the Upper Division States will continue fulfilling their interstate water compact obligations while exercising their rights to develop and utilize the Upper Colorado River Basin’s (“Upper Basin”) Colorado River System compact apportionment.”

¹¹ DROA § I(A)(2): “Maintain the ability to generate hydropower at Glen Canyon Dam so as to protect: a. Continued operation and maintenance of the Initial Units and participating projects authorized under the [1956 Act]; b. Continued funding and implementation of environmental and other programs that are beneficial to the Colorado River System; c. Continued electrical service to power customers, including municipalities, cooperatives, irrigation districts, federal and state agencies and Native American Tribes, and the continued functioning of the western Interconnected Bulk Electric System that extends from Mexico to Canada and from California to Kansas and Nebraska; and d. Safety contingencies for nuclear power plant facilities within the Colorado River Basin.”

¹² DROA § I(A)(3): “Minimize adverse effects to resources and infrastructure in the Upper Basin.”

105 units.¹³

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107 **3. Summary of Hydrologic Conditions and Projections**

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109 To formulate a yearly Plan, the DROA Parties rely on the most current and projected
110 hydrological information which is outlined in Attachment A, Part 1 and includes the following:

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112 3.1 Current and projected elevations at Lake Powell, including graphic representation
113 from the Bureau of Reclamation's (Reclamation) multi-year projections;

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115 3.2 Reclamation's most recent Colorado River Mid-term Modeling System 24-Month
116 Study (24-Month Study);

117

118 3.3 Identification of the first months when the 24-Month Study Minimum Probable
119 inflow¹⁴ and the Most Probable inflow each projected Lake Powell to be at or
120 below the Target Elevation;

121

122 3.4 Current and projected elevations and the associated volumes at each of the Initial
123 Units for the following 24 months, including any difference in volume from the
124 projected elevations and the Target Elevation at Lake Powell, according to the 24-
125 Month Study Minimum Probable inflow and Most Probable inflow;

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127 3.5 Availability of water for Drought Response Operations at each of the Initial Units
128 and the timing of such water availability;

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130 3.6 Summary of estimated effect on Lake Powell from Drought Response Operations
131 concerning operational adjustments to monthly Lake Powell release volumes; and

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133 3.7 Summary of previous Drought Response Operations at each Initial Unit, if any.
134 The summary includes:

135

136 3.7.1 Previous Drought Response Operation Releases

137 3.7.2 Estimated effect on Lake Powell from previous Drought Response
138 Operation Releases and operational adjustments based upon best
139 available information

¹³ DROA § II(A)(3)(b) (scope).

¹⁴ In the 24-Month Study, the first year of the Most Probable inflow trace is based on the 50th percentile of Colorado Basin River Forecast Center forecasts and the second year is based on the 50th percentile of historical flows. To represent dry and wet future conditions, the Minimum Probable and Maximum Probable traces use the 10th and 90th forecast percentiles in the first year and the 25th and 75th percentiles of historical flows in the second year, respectively.

140 3.7.3 Status of Recovery from previous Drought Response Operation
141 Releases, including any releases pursuant to Emergency Actions

142 **4. Summary of Proposed Drought Response Operations:**
143

144 As part of yearly Plans, the DROA Parties provide a summary of Drought Response
145 Operations in Attachment A, Part 2, and that summary includes the following:

- 146
- 147 4.1 Projections for the Drought Response Operations incorporated in the Minimum,
148 Maximum, and Most Probable inflow traces.
- 149
- 150 4.2 A description of operational adjustments at Glen Canyon Dam, if any, which
151 includes a comparison of such operational adjustments to operations when no
152 adjustments are made. This comparison may be provided through text, tables,
153 figures, and graphs as needed.
- 154
- 155 4.3 A description of Drought Response Operations releases and recovery at affected
156 Initial Units, as applicable, as set forth in Attachments C through E. This includes
157 the amount of Drought Response Operations water (rate, volume, and timing) a
158 description of each reservoir’s projected water level over the following 24 months.
159

160 **5. Application of DROA’s Process and Principles for Drought Response Operations**
161

162 This section describes how a Plan is developed to be consistent with the DROA provisions
163 and principles, ensuring that the Plan meets the obligations imposed by the 2019 DCP Act.

164

165 **5.1 DROA Planning Timeline**
166

167 DROA relies on hydrologic projections and establishes a timeframe of approximately
168 two years to plan for and implement Drought Response Operations with as much
169 advance notice as possible to avoid Lake Powell declining below the Target
170 Elevation.¹⁵ The process begins when any Minimum Probable inflow trace of the 24-
171 Month Study projects Lake Powell falling to or below the Target Elevation within the
172 upcoming 24-month period of the study. This begins a process for more frequent
173 monitoring, data collection, and coordination.¹⁶
174

175 The next phase of DROA planning occurs when any Most Probable inflow trace of the
176 24-Month Study shows Lake Powell declining to or below the Target Elevation in the
177 upcoming 24-month study period.¹⁷ When this occurs, the DROA Parties begin to

¹⁵ See DROA § II(A)(4).

¹⁶ DROA § II(A)(4)(a).

¹⁷ DROA § II(A)(4)(a)(iv)(2).

178 develop a Plan pursuant to DROA¹⁸ and this Framework, and then seek approval¹⁹ and
179 implementation²⁰ of that Plan, starting as early as the April²¹ before Lake Powell is
180 projected to decline below the Target Elevation. Attachment A Section 2 describes the
181 proposed Drought Response Operations for the applicable Plan.

182
183
184 The process is completed only after each upstream Initial Unit has fully recovered
185 water released under Drought Release Operations.²² If an outstanding recovery balance
186 exists at an upstream Initial Unit the DROA Parties will prepare a DROA Plan.

187 188 5.2 Scope of Drought Response Operations at the Initial Units

189
190 DROA calls for Drought Response Operations that fit within the flexibilities allowed
191 by existing Initial Unit operations.²³ The proposed Drought Response Operations are
192 designed to work within the existing authorities and operational flexibilities of each of
193 the Initial Units, which are described generally for each Initial Unit in this Section 5.2
194 and in the applicable Attachments.

195 196 *5.2.1 General Release and Recovery Principles*

197
198 DROA requires consideration of all the Initial Units for a Drought Response
199 Operation.²⁴ Lake Powell operations and releases from the upstream Initial Units
200 reservoirs are each governed by one or more Record of Decision under the National
201 Environmental Policy Act as well as authorized purposes dictating constraints and
202 flexibilities. For each Initial Unit, Reclamation’s reservoir operator determines a
203 release rate that meets prescribed criteria within an allowable range. For Drought
204 Response Operations, three possible types of reservoir operations are considered:

- 205 • Operations without Drought Response – Reservoir operations absent Drought
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¹⁸ DROA § II(A)(4)(b).

¹⁹ DROA § II(A)(4)(c).

²⁰ DROA § II(A)(4)(d).

²¹ DROA § II(A)(4)(b)(iv)(2).

²² DROA § II(A)(3)(e).

²³ DROA § II(A)(3)(b): “Scope of Drought Response Operations: Any drought response operation, including drought response releases and recovery of storage operations, at a CRSPA Initial Unit will be managed with the maximum flexibility practicable consistent with: the Colorado River Compact; the Upper Colorado River Basin Compact; the Colorado River Storage Project Act; the Colorado River Basin Project Act; the San Juan-Chama Project Act (P.L. 87-483); the Northwestern New Mexico Rural Water Projects Act (P.L. 111-11); the project-specific criteria for each CRSPA Initial Unit, including the relevant Records of Decision, Biological Opinions and authorized purposes for each Unit (see Section I.C.2); legal obligations, including existing and future contracts related to water and/or hydropower; states’ water right administration requirements and decrees; and all applicable rules and regulations promulgated thereunder.”

²⁴ DROA § II(A)(3)(c): “Participation from all CRSPA Initial Units: Recognizing the shared risk of extended drought and acknowledging the Upper Division States’ continuing responsibilities to maintain compact compliance within the Upper Basin, a drought response operation contemplated by this Drought Response Operations Agreement shall ensure that ALL CRSPA Initial Units will be considered for drought response operations”

207 Response Operations. These operations will continue to be within each reservoir’s
208 allowable range. The allowable range is governed by physical constraints,
209 regulatory constraints, dam safety considerations, safe channel capacity, public
210 safety, and applicable state and federal law, among other things.

- 211
- 212 • Drought Release Operations – In addition to the constraints and flexibilities
213 identified above, DROA²⁵ dictates that Drought Release Operations comport with
214 authorizing legislation and agreements and consider, among other things,
215 applicable existing and future contracts²⁶ related to water and/or hydropower, and
216 each State’s water rights administration and decrees. Drought Release Operations
217 will occur within each upstream Initial Unit’s allowable range of releases, and
218 above the range of releases that would occur pursuant to Operations without
219 Drought Response.
- 220
- 221 • Drought Response Recovery – Recovery is necessary whenever water has been
222 released under either a prior Plan or an emergency action. Recovery of releases
223 occurs by storing more water and/or reducing releases. Recovery under Drought
224 Response Recovery will occur within each upstream Initial Unit’s allowable range
225 of operations. When operational releases reach the low end of the allowable
226 operational range and cannot be reduced further, recovery cannot occur until
227 conditions allow. Recovery is further addressed in Section 6.
- 228

229 As described above, any Drought Response Operation must be consistent with any
230 constraint on Initial Unit operations,²⁷ including the Law of the River, Records of
231 Decision, Biological Opinions, authorized purposes for individual Initial Units, states’
232 water right administration requirements, contracts, and any other constraints and
233 flexibilities that affect operation of the Initial Units. Additionally, impacts to river
234 flows and upstream Initial Unit reservoir water levels related to recreation visitation
235 and the economic value of recreation will be considered, along with potential
236 downstream flooding risks. To determine what flexibilities may be available, the
237 DROA Parties will work with the existing entities and processes that govern Initial
238 Unit operations to develop a Plan that will both minimize the risk of Lake Powell
239 falling below the Target Elevation and maintain consistency with Initial Unit
240 operation. Depending on the Initial Unit, these entities include Federal agencies,
241 Tribes, States, contractors, water users, applicable advisory groups, non-governmental
242 organizations, and the public. Early communication with such entities is critical and
243 will occur as described in Section 7 of this Framework. The DROA Parties will also
244 maintain a long-term focus to ensure appropriate operation of Initial Units for their

²⁵ DROA § II(A)(3)(b).

²⁶ DROA Section II(A)(3)(b) states that “future contracts” are among the parameters considered in any Drought Response Operation. Accordingly, the DROA Parties will consider contracts that have been executed after the effective date of DROA. Any contract executed after a Drought Response Operation has begun will be addressed in an amendment to the applicable Plan, if necessary.

²⁷ DROA § II(A)(3)(b).

245 authorized purposes into the future.

246
247 Nothing in this Framework or the Attachments is intended to interpret the provisions
248 of the Colorado River Compact (45 Stat. 1057); the Upper Colorado River Basin
249 Compact (63 Stat. 31); the Utilization of Waters of the Colorado and Tijuana Rivers
250 and of the Rio Grande, Treaty Between the United States of America and Mexico
251 (Treaty Series 994, 59 Stat. 1219); the United States/Mexico agreements in Minute
252 No. 242 of August 30, 1973 (Treaty Series 7708; 24 UST 1968), Minute No. 322 of
253 January 19, 2017 (as it may be extended), or Minute No. 323 of September 21, 2017;
254 the Consolidated Decree entered by the Supreme Court of the United States in *Arizona*
255 *v. California* (547 U.S 150 (2006)); the Boulder Canyon Project Act (45 Stat. 1057; 43
256 U.S.C. 617); the Boulder Canyon Project Adjustment Act (54 Stat. 774; 43 U.S.C.
257 618a); the Colorado River Storage Project Act (70 Stat. 105; 43 U.S.C. 620); the
258 Colorado River Basin Project Act (82 Stat. 885; 43 U.S.C. 1501); the Colorado River
259 Basin Salinity Control Act (88 Stat. 266; 43 U.S.C. 1951); the Hoover Power Plant
260 Act of 1984 (98 Stat. 1333); the Hoover Power Allocation Act of 2011 (125 Stat. 777);
261 the Colorado River Floodway Protection Act (100 Stat. 1129; 43 U.S.C. 1600); the
262 Grand Canyon Protection Act of 1992 (Title XVIII of Public Law 102-575, 106 Stat.
263 4669); the Decree Quantifying the Federal Reserved Right for Black Canyon of the
264 Gunnison National Park (Case No. 01CW05, District Court, Colorado Water Division
265 No. 4, 2008); the Colorado River Drought Contingency Plan Authorization Act (Public
266 Law 116-14); the principles of DROA, including, but not limited to, Section
267 II(A)(3)(b); or the rules, criteria, guidelines, and decisions referenced within this
268 Framework and the Attachments.

269 270 *5.2.2 Lake Powell Monthly Operational Adjustments*

271
272 Glen Canyon Dam provides 26.2 million acre-feet of water storage capacity in Lake
273 Powell. As Glen Canyon Dam fulfills its authorized purposes, Lake Powell's
274 elevation fluctuates depending on the amount of spring runoff from the mountains,
275 releases required under current law, and the amount of water carried over from the
276 previous year. Each year, the lake level typically increases between May and July
277 from runoff followed by a decrease in lake level throughout the remainder of the year.

278
279 DROA states that “[o]perational adjustments in monthly volumes at Glen Canyon
280 Dam will be considered first to minimize the risk of Lake Powell declining below the
281 Target Elevation consistent with the Criteria for Coordinated Long-Range Operation
282 of Colorado River Reservoirs, which is currently implemented through the 2007
283 Interim Guidelines.”²⁸ LTEMP determines monthly releases under

284
285 a framework for adaptively managing Glen Canyon Dam operations and
286 other management and experimental actions over the next 20 years,

²⁸ DROA § II(A)(3)(c)(i).

287 consistent with the Grand Canyon Protection Act (GCPA) and other
288 provisions of applicable Federal Law. The LTEMP identified specific
289 options for dam operations (including hourly, daily, and monthly release
290 patterns), non-flow actions, and appropriate experimental and management
291 actions that meet the GCPA's requirements, and maintain or improve
292 hydropower production to the greatest extent practicable, consistent with
293 improvement of downstream resources, including those of importance to
294 American Indian tribes. Under the LTEMP, water will continue to be
295 delivered in a manner that is fully consistent with and subject to the
296 Colorado River Compact, the Upper Colorado River Basin Compact, the
297 Water Treaty of 1944 with Mexico, the decree of the Supreme Court in
298 Arizona v. California, and the provisions of the Colorado River Storage
299 Project Act of 1956 (CRSPA) and the Colorado River Basin Project Act of
300 1968 that govern allocation, appropriation, development, and exportation of
301 the waters of the Colorado River Basin, and consistent with applicable
302 determinations of annual water release volumes from Glen Canyon Dam
303 made pursuant to the Long-Range Operating Criteria (LROC) for Colorado
304 River Basin Reservoirs, which are currently implemented through the 2007
305 Interim Guidelines for Lower Basin Shortages and Coordinated Operations
306 for Lake Powell and Lake Mead.²⁹

307
308 These operational parameters determine the flexibility for any Drought Response
309 Operation. The 2007 Interim Guidelines control annual release volumes, and any
310 monthly adjustments to Glen Canyon Dam releases consistent with the Grand Canyon
311 Protection Act do not alter the annual release volume requirements and cannot change
312 the annual release volumes.

313
314 LTEMP expressly provides for modifications to Glen Canyon Dam monthly releases
315 “to respond to low reservoir conditions as a result of drought in the Colorado River
316 Basin.”³⁰ LTEMP requires Reclamation to make such adjustments “in coordination
317 with the Basin States,”³¹ through a process described in LTEMP,³² including a Glen
318 Canyon Monthly Operations Call, along with updates to the Glen Canyon Dam
319 Adaptive Management Program (GCDAMP). Explanations for monthly operational
320 adjustments consistent with the Grand Canyon Protection Act may include an analysis
321 pursuant to the parameters defined under LTEMP.³³

²⁹ LTEMP ROD at 2.

³⁰ LTEMP ROD, Attachment B, § 1.2, p. B-7: “In addition, Reclamation may make modifications under circumstances that may include operations that are prudent or necessary for the safety of dams, public health and safety, other emergency situations, or other unanticipated or unforeseen activities arising from actual operating experience (including, in coordination with the Basin States, actions to respond to low reservoir conditions as a result of drought in the Colorado River Basin).”

³¹ LTEMP ROD, Attachment B, § 1.2, p. B-7.

³² LTEMP ROD, Attachment B, § 1.1.

³³ LTEMP ROD, Attachment B, § 1.2 Operational Flexibility Under Alternative D.

323 The DROA Parties will consider the following criteria, without limitation and subject
324 to existing law and regulation, when assessing operational adjustments at Lake Powell:

- 325
- 326 1. Glen Canyon Dam monthly volume calculations as projected by Reclamation prior
327 to Drought Response Operations.
 - 328 2. During years when early forecasts indicate that operational adjustments at Glen
329 Canyon Dam may be needed to maintain the Target Elevation, smaller incremental
330 monthly adjustments shall be considered before the April 24-Month Study forecast
331 in order to have sufficient time to maintain the required volume needed in Lake
332 Powell and to minimize effects to monthly flow volumes later in the water year.
333
 - 334 3. Any monthly release volume adjustments made under a Plan will be incorporated
335 into Glen Canyon Dam operations and will be offset to ensure the Dam’s required
336 annual release volume is not modified.³⁴
337
 - 338 4. Consistency with the implementation of the Grand Canyon Protection Act.
339

340 Attachment B to the Plan in effect addresses Glen Canyon Dam.
341

342

343 *5.2.3 Flaming Gorge*

344

345 Flaming Gorge is the largest upstream Initial Unit and is situated high in the Upper
346 Colorado River Basin across the Utah and Wyoming border. When the reservoir is full
347 at elevation 6,040 feet above mean sea level, it has a total capacity of 3,788,800 acre-
348 feet with an active capacity of 3,749,000 acre-feet and a surface area of 42,020 acres.
349 The Flaming Gorge Annual Operation Plan (FG AOP) may be amended and releases
350 made within the flexibility of the 2006 Flaming Gorge Record of Decision and within
351 the provisions of DROA.

352

353 Flaming Gorge is operated for authorized purposes, including water storage, contract
354 releases, power production, recreation, and environmental conditions downstream of
355 the reservoir for endangered fish recovery pursuant to the 2005 Biological Opinion
356 and 2006 Flaming Gorge Record of Decision. In accordance with the EIS, Flaming
357 Gorge is operated to “protect and assist in recovery of the populations and designated
358 critical habitat of the four endangered fishes, while maintaining all authorized
359 purposes of the Flaming Gorge Unit of the Colorado River Storage Project (CRSP),
360 including those related to the development of water resources in accordance with the

³⁴ Under the 2007 Interim Guidelines Section XI.G.7.D. “The Secretary will base annual determinations regarding the operations of Lake Powell and Lake Mead on these Guidelines, unless extraordinary circumstances arise. Such circumstances could include operations that are prudent or necessary for safety of dams, public health and safety, other emergency situations, or other unanticipated or unforeseen activities arising from actual operating experience.”

361 Colorado River Compact.”³⁵ Operating criteria have been developed to produce the
362 necessary environmental parameters under a variety of hydrologic conditions.³⁶ Water
363 under contract is not available for Drought Response Operations.

364
365 The allowable range of Flaming Gorge operations is a function of the period of the
366 year, hydrologic conditions, and ongoing or planned studies related to adaptive
367 management in support of the endangered fish recovery program. Current operations
368 at Flaming Gorge reflect ongoing experimentation that has been coordinated by and
369 through the Flaming Gorge Technical Working Group and with the Flaming Gorge
370 Working Group stakeholders.

371 372 *5.2.3.1. Flaming Gorge Operations*

373
374 Flaming Gorge operations are established in the spring based on forecasted runoff for
375 the upcoming 12 months. The year is broken into three periods: Spring, Base Flow,
376 and Transition.

377
378 Specific operations for the Spring Period are established in the FG AOP for each given
379 year and its timing varies depending on yearly hydrology. The Base Flow Period
380 follows the Spring Period and typically constitutes flows from mid-July through the
381 end of February. The Transition Period runs from March 1st through the beginning of
382 the Spring Period or peak release. Details of potential flows during each of the periods
383 can be found in Attachment C and the FG AOP.

384 385 386 *5.2.3.2. Flaming Gorge Operating Range during Drought Response Operations*

387
388 The range of flows required to comply with the dam’s authorized purposes and to
389 assist in the recovery of ESA listed fish species downstream of the dam for each
390 hydrologic condition is included in tables in Appendix 1 to Attachment C.

391
392 Drought Response Operations must remain within the range prescribed in the tables
393 for the corresponding hydrologic conditions within the authorized flexibilities. Further,
394 pursuant to DROA Section II(A)(5), any proposed changes in release targets (release
395 and recovery flow) will be coordinated with the Flaming Gorge Working Group.

396
397 Attachment C to the Plan in effect addresses Flaming Gorge.

398 399 *5.2.4 Aspinall*

400

³⁵ Record of Decision, Operation of Flaming Gorge Dam, Final Environmental Impact Statement (February 2006) at 1.

³⁶ These criteria are found in several documents, including the Environmental Impact Statement, Record of Decision, Biological Opinion, and the FG AOP, among others.

401 The Wayne N. Aspinall Unit is a series of three consecutive dams and reservoirs on
402 the Gunnison River in Colorado: Blue Mesa, Morrow Point, and Crystal. Blue Mesa
403 Reservoir is the most upstream facility of the Aspinall Unit and serves as its primary
404 storage reservoir. Blue Mesa Reservoir has a total capacity of 938,469 acre-feet at
405 elevation 7,519.4 feet above mean sea level, including an active pool of 747,898 acre-
406 feet. Key reservoir elevations are described in Attachment D.

407 *5.2.4.1. Aspinall Current Reservoir Operations*

408
409 The Aspinall Unit (Aspinall) operates in accordance with its federally authorized
410 purposes, multiple state-decreed water rights and agreements, executed contracts and
411 pursuant to the Biological Opinion and the 2012 Aspinall Record of Decision.

412
413 Blue Mesa storage peaks late in the spring runoff period and reservoir elevations
414 decline as releases are made to satisfy States' water rights administration and decrees,
415 to meet authorized purposes including power generation, for flood control, for
416 downstream target flows pursuant to the 2012 Aspinall Record of Decision, and to
417 meet the December 31 target elevation of 7,490 feet to prevent icing issues upstream
418 of the reservoir.

419
420 Downstream target flows vary by hydrologic year type and are determined by May 1
421 forecasts of April through July inflow into Blue Mesa Reservoir as detailed in
422 Attachment D.

423 *5.2.4.1.1. Contracted Water at Aspinall*

424
425 Aspinall currently has various amounts of water under contract for delivery
426 downstream, or for augmentation of depletions upstream in any given year.
427 Current contracts are listed in Attachment D. Water under contract is not available
428 for Drought Response Operations.

429 *5.2.4.1.2. Taylor Park Exchange Agreement*

430
431 The Taylor Park Reservoir Operation and Storage Exchange Agreement (1975)
432 allows for the exchange of water stored in Taylor Park Reservoir and Blue Mesa
433 Reservoir to improve utilization and management of available water supplies under
434 the water rights of the Uncompahgre Project and Blue Mesa. The maximum
435 amount of Taylor Park Reservoir exchange water that can be stored within Blue
436 Mesa Reservoir at any time throughout the year is 106,230 acre-feet. The amount
437 of Taylor Park Reservoir exchange water stored in Blue Mesa Reservoir is for
438 diversion by the Uncompahgre Project at the Gunnison Tunnel and is determined
439 through accounting managed by the Colorado Division of Water Resources. This
440 water is not available for release pursuant to DROA.

441 5.2.4.1.3. Aspinall Subordination Agreement

442
443 The Subordination Agreement, dated June 1, 2000, formalizes the commitment
444 made by the United States during the planning of the Aspinall Unit to allow
445 subordination of Aspinall Rights up to 60,000 acre-feet per year to in-basin water
446 users so that Aspinall would not interfere with future water development in the
447 Upper Gunnison River Basin. A decree entered in Case No. 03CW263 (October 10,
448 2006), Water Court, Water Division No. 4, for a plan for augmentation permitted
449 the subordination of Aspinall Rights to augment existing and future water rights
450 exercised for all decreed beneficial purposes within the Gunnison River Basin
451 through any decreed structure or facility upstream of the Crystal Reservoir Dam.
452 Accounting for the plan for augmentation is the responsibility of the State of
453 Colorado Division Engineer's Office, Water Division No. 4. Water utilized pursuant
454 to this agreement does not reach the Aspinall Unit and therefore is not available for
455 release pursuant to DROA.

456
457 Attachment D to the Plan in effect addresses Aspinall.

458
459 5.2.5 Navajo Reservoir

460
461 Navajo Dam is located in San Juan County, New Mexico, and the reservoir extends
462 upstream from New Mexico into Colorado. The reservoir has a total capacity of 1,647,940
463 acre-feet, including an active capacity of 1,021,910 acre-feet.³⁷ Maximum active storage
464 is at elevation 6,085 ft above mean sea level. Minimum active storage is elevation 5,990
465 ft, which is the minimum operating level for the Navajo Indian Irrigation Project (NIIP)
466 and the Navajo-Gallup Water Supply Project Cutter Lateral intake.

467
468 5.2.5.1. Current Navajo Reservoir Operations

469 5.2.5.1.1. Contracted Water at Navajo Reservoir

470 Water under contract is not available for Drought Response Operations. Navajo
471 Reservoir contracted water volumes are described below. These volumes represent
472 the full allocation of water contracts and may differ from actual annual use.

- 473
474 i. Williams Gas Processing (expires 3/31/28): 50 af/yr.
475
476 ii. Navajo Nation Settlement Contract (no expiration): 508,000 af/yr for
477 NIIP, which includes 22,650 af/yr of diversion (20,780 af/yr of depletion)
478 for the Navajo-Gallup Water Supply Project.
479

³⁷ Reclamation Technical Report, ENV-2021-002, Navajo Reservoir 2019 Sedimentation Survey

- 480 iii. Jicarilla Apache Nation Settlement Contract (no expiration): not to exceed
481 33,500 af/yr diversion (25,500 af/yr of depletion) from the Navajo
482 Reservoir Supply for use by the Nation or for subcontracting outside the
483 reservation, in accordance with the Jicarilla Apache Tribe Water Rights
484 Settlement Act of 1992.
485
486 iv. Hammond Conservancy District Contract: 23,000 af/yr of depletion.

487 Shortages to contracts at Navajo Reservoir will be handled according to the provisions of
488 Public Law No. 87-483, as amended by Public Law No. 111-11.³⁸ In the case of severe
489 drought with anticipated shortages to the Navajo Reservoir water users, the Navajo
490 Reservoir Operations ROD allows for consideration of a temporary revision to spring peak
491 release criteria or lowering of baseflow targets in the critical habitat reach.
492

493 5.2.5.1.2. Navajo Reservoir Requirements related to Endangered Species

494 Navajo Reservoir is operated consistent with the Navajo Reservoir Operations
495 Biological Opinion issued for the Animas-La Plata Project and the flow
496 recommendations of the San Juan River Recovery Implementation Program
497 (SJRIP). Those require operating the reservoir to mimic the natural hydrograph of
498 the river and to maintain certain flow targets. Further detail is provided in
499 Attachment E.
500

501 5.2.5.1.3. Other Reclamation Operations at Navajo Reservoir

502 Reclamation makes other releases for the purposes of channel maintenance,
503 downstream channel work, requests from downstream coal power plants, requests
504 from other agencies, or other activities as needed. Modifying such operations could
505 be used for DROA recovery, so long as such actions do not interfere with Navajo
506 Reservoir's authorized purposes. Water available for Drought Response
507 Operations may include Spring Peak Releases and Excess Water as those terms are
508 defined in Attachment E.
509

510 Attachment E to the Plan in effect addresses Navajo Reservoir.
511

512 5.3 Effectiveness

513
514 DROA requires consideration of whether a proposed release will be effective in
515 maintaining the Target Elevation at Lake Powell, or minimizing the risk of Lake Powell
516 declining below elevation 3,490 ft. This includes the discretion to proceed or not to
517 proceed with releases that may not completely maintain the Target Elevation or eliminate

³⁸ Pub. L. No. 111-11, § 10402, 123 Stat. 991, 1372 (Mar. 30, 2009).

518 the risk of falling below elevation 3,490 ft.³⁹ Reclamation has identified 3,500’ as the
519 operational elevation to provide protection from declining to 3,490’⁴⁰. The effectiveness
520 of any Drought Response Operation must be assessed throughout the Plan Year to ensure
521 the Drought Response Operation continues to achieve the intent and goals of DROA.

522
523 DROA states that “[o]perational adjustments in monthly volumes at Glen Canyon Dam
524 will be considered first...”, and then relies on water available pursuant to DROA §
525 II(A)(3)(b) in all upstream Initial Units to reduce the risk of Lake Powell dropping below
526 the Target Elevation. If dry conditions persist or worsen, the available water for potential
527 adjustments or releases may be insufficient to maintain the Target Elevation or eliminate
528 the risk of falling below elevation 3,490 ft. at Lake Powell. As such, Drought Response
529 Operations may be ineffective and therefore futile.

530
531 The effectiveness of a Plan is difficult to predict prior to knowing actual hydrologic
532 conditions. The forecasts on which modeling projections rely can be highly variable and
533 may not reflect future hydrologic conditions.

534
535 In certain years, volumes of storage available in the Initial Units for potential adjustments
536 or releases may be insufficient to maintain the Target Elevation or eliminate the risk of
537 falling below elevation 3,490 ft at Lake Powell.

538
539 Before the DROA Parties can assess the effectiveness or futility of any Drought Response
540 Operation, the Plan must first meet the requirements established in the “Scope of Drought
541 Response Operations”⁴¹ provision, including, among other things, the following:

- 542
543 a. applicable laws and regulations;
544 b. intrastate water rights administration requirements and decrees; and
545 c. ability to meet contractual obligations related to any upstream Initial Unit.

546 If a proposed Plan meets DROA requirements, the DROA Parties will assess the
547 effectiveness or futility of a Drought Response Operation based on whether, and to what
548 extent, the Drought Response Operation will reduce the risk of Lake Powell falling below
549 the Target Elevation during the next 12-month period, as projected by the most recent 24-
550 Month Study. In making such an assessment, the DROA Parties may rely on current or
551 projected operations at Lake Powell, and other information that any DROA Party deems

³⁹ DROA § II(A)(3)(d): “Effectiveness: The Parties agree that a drought response release from a CRSPA Initial Unit may be recommended even if it is determined that such release would not, by itself, fully achieve the intent or goals of this Drought Response Operations Agreement. Such releases, however, may not be recommended if they are ultimately determined to be futile to achieve the goals or intent of this Drought Response Operations Agreement.”

⁴⁰ Elevation 3,500’ is identified as the elevation to “maintain” in Section 6(E) of the 2024 Near-Term Operations SEIS.

⁴¹ DROA § II(A)(3)(b).

552 relevant⁴². Due to uncertainty regarding water year 2027 operations, the Upper Division
553 States have determined they are currently unable to analyze the effectiveness of the 2026
554 DROA Plan beyond water year 2026. The DROA Parties will specifically consider the
555 following criteria, on an ongoing basis, without limitation:

- 556
557 1. The likelihood that the Drought Response Operation will increase the risk of a net
558 decrease in the elevation at Lake Powell over any consecutive 12-month period based
559 on the most recent 24-Month Study;
- 560
561 2. The extent to which conducting a Drought Response Operation for certain durations
562 and at certain times during the water year might affect the ability of the released water
563 to reach Lake Powell;
- 564
565 3. The extent to which a Drought Response Operation changes the risk of Reclamation
566 being unable to meet obligations related to an upstream Initial Unit in subsequent
567 years following a Drought Response Operation;⁴³
- 568
569 4. The degree to which a Drought Response Operation minimizes, to the extent
570 practicable, impacts of the Drought Response Operation to natural resource
571 conditions;⁴⁴
- 572
573 5. The degree to which a Drought Response Operation minimizes, to the extent
574 practicable, impacts to the Upper Colorado River Basin Fund, contracts for
575 hydropower and CRSP firm electric service customers, and impacts to the reliability of
576 the Western Interconnected Bulk Electrical System;⁴⁵
- 577
578 6. The extent to which a Drought Response Operation minimizes adverse effects to
579 resources and infrastructure in the Upper Basin⁴⁶ and provides additional certainty on
580 Colorado River water management,⁴⁷ including but not limited to associated economic
581 implications; and
- 582
583 7. The extent to which a Drought Response Operation recovery at a particular Initial Unit
584 will occur or has occurred.⁴⁸
- 585

⁴² Resolution of the Upper Colorado River Commission, *Clarifying Principles for Future Releases from Upstream Initial Units Under the 2019 Drought Response Operations Agreement*, dated September 21, 2023.

⁴³ DROA § II(A)(3)(b).

⁴⁴ DROA § II(A)(3)(f).

⁴⁵ DROA § II(A)(3)(g).

⁴⁶ DROA § I(A)(3).

⁴⁷ DROA § I(B)(3).

⁴⁸ DROA § II(A)(6): “Operations to recover storage after a drought response operation has been implemented will continue as long as necessary to recover from any drought response operations taken before October 1, 2026.”

586 Attachment A contains an overview of effectiveness and an explanation of how a
587 determination was made.

588 589 5.4 Natural Resources Considerations

590
591 Subject to specific considerations for each Initial Unit that might be affected by Drought
592 Response Operations, general natural resource considerations include the following:

593
594 To the extent practicable, Drought Response Operations should be made to mimic the
595 natural timing of streamflow. Most Initial Unit operations, for example, contain an option
596 for releasing additional water at times that coincide with natural high flows in the spring.
597 Releasing water during these windows will generally align with existing operations,
598 provide ecological benefits, and may support operational flexibilities related to retaining
599 water in storage until more information about runoff is known in the spring.

600
601 In addition to other limitations described herein, including but not limited to Framework
602 Section 5, specific considerations for each Initial Unit participating in Drought Response
603 Operations were provided by relevant natural resource agencies and include the following:

604 605 Lake Powell and Glen Canyon Dam:

- 606 ● minimizing reservoir elevation drop to address considerations of non-
607 native predators potentially passing through Glen Canyon Dam and the
608 potential effects on listed species;
- 609 ● transferring most of the withheld winter volume as a spring peak flow
610 in May or June; and
- 611 ● considering sediment erosion and summer river temperatures related to
612 warm water non-native fish breeding below the Dam.

613 614 Flaming Gorge:

- 615 ● releasing most of the Drought Response Operation volume during a
616 naturally timed spring peak;
- 617 ● following, among other things, experimental recommendations of the
618 Upper Colorado River Endangered Fish Recovery Program as
619 allowable in the Flaming Gorge ROD and outlined in the annual flow
620 request letter; and
- 621 ● not exceeding recommended baseflows between December and March.

622 623 Aspinall:

- 624 ● limiting the overall volumes used from Blue Mesa;
- 625 ● releasing most of the Drought Response Operation volume during a
626 naturally timed spring peak, with the next preference for releases in fall
627 and least preferred released Jan-April; and
- 628 ● maintain consistency with shoulder month flows described in the
629 Aspinall ROD.

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667

Navajo Reservoir:

- consistency with the hydrograph recommended by the SJRIP;
- meeting recommended high spring flows when available; and
- ensuring the ability to meet future releases recommended by the SJRIP.

Attachment F contains an overview of the consideration of natural resource conditions and an explanation of how a determination was made for each specific Plan.

5.5 Impacts to the Basin Fund and Bulk Electrical System

DROA requires consideration of Drought Response Operations that “help minimize, to the extent practicable, impacts to the Upper Colorado River Basin Fund and impacts to the reliability of the Western Interconnected Bulk Electrical System,”⁴⁹ and consideration of “continued electrical service to power customers.”⁵⁰ Maintaining the ability to generate hydropower at Glen Canyon Dam helps maintain water facility operations and maintenance, environmental and other programs, electrical service to CRSPA power customers, and functioning of the Western Interconnected Bulk Electric System.⁵¹

Concerns about the Upper Colorado River Basin Fund's (Basin Fund) solvency and the viability of hydropower have grown as the current drought has persisted. The Western Area Power Administration (WAPA) is the agency responsible for marketing the power produced from the Initial Units, of which approximately 75% is produced at Glen Canyon.

WAPA supports Drought Response Operations when they are necessary to protect the Target Elevation at Lake Powell. In general, when Drought Response Operations are necessary, WAPA has proposed specific considerations for mitigation to hydropower generation and the Basin Fund, when practicable, as follows:

- Operations at Glen Canyon Dam:* Planning for monthly volume releases should consider maximizing hydropower production during winter and summer peak electrical demand. For fall operations, October through November, releases from Glen Canyon Dam should be reduced. Reduced releases in December and January should be avoided. For spring operations, monthly release volumes should be modified to retain water in storage until after spring runoff thereby allowing larger release volumes in July through September to maximize the value of hydropower and reduce days spent below the Target Elevation.

⁴⁹ DROA § II(A)(3)(g): “Impacts to Basin Fund and Bulk Electric System: Drought response operations at CRSPA Initial Units will consider the timing, duration, and magnitude of water releases to help minimize, to the extent practicable, impacts to the Upper Colorado River Basin Fund and impacts to the reliability of the western Interconnected Bulk Electrical System, within the scope identified in Section II.A.3.b.”

⁵⁰ DROA § I(A)(2)(c).

⁵¹ DROA § I(A)(2).

- 668 b. *Operations at Flaming Gorge*: Drought Response Operations from Flaming Gorge
669 should primarily be scheduled during the summer months, June through September.
670 Bypasses should be avoided whenever possible unless essential to avoid Lake Powell
671 dropping below the minimum power pool elevation.
672
- 673 c. *Operations at the Aspinall Unit*: Drought Response Operations from the Aspinall Unit
674 should primarily be scheduled during the summer months, June through September,
675 and secondarily during the winter months, December through February. Bypasses
676 should be avoided whenever possible unless essential to avoid Lake Powell dropping
677 below the minimum power pool elevation.
678
- 679 d. *Operations at Navajo Dam Reservoir*: There is no CRSP power generation at Navajo
680 Dam and therefore WAPA provided no recommendations.
681

682 The general proposals described here are considered, in addition to other DROA
683 considerations, in Attachment G, which contains an overview of impacts to the Basin
684 Fund and Bulk Electrical System and an explanation of how a determination was made for
685 each specific Plan.
686

687 5.6 Released Water Distribution and Transit Loss

688

689 *5.6.1. Released Water Distribution*

690

691 Drought Response Operations releases from the upstream Initial Units need to
692 occur for the duration and at times of year identified by the Upper Division
693 State(s) to optimize the amount of released water that reaches Lake Powell.
694 Optimization includes, but is not limited to, consideration of intervening uses.
695 Notice to the downstream Upper Division State(s) will be provided prior to the
696 initiation of such releases. Each Upper Division State, through the exclusive
697 authority vested in each for the administration and distribution of its waters, will
698 ensure that released water is directed to each state line or to Lake Powell pursuant
699 to state law, as applicable.
700

701 *5.6.2. Transit Loss*

702

703 Transit losses are generally factored in as part of Reclamation's existing models,
704 which estimate loss and gain volumes related to water conveyance from the Upper
705 Basin to Lake Powell. Using those existing models, Reclamation can estimate the
706 adjustments to Lake Powell elevation levels based on any Drought Response
707 Operations from the upstream Initial Units. Therefore, the DROA Parties will not
708 separately estimate transit losses above and beyond the relationships that are
709 captured in the existing models. The Upper Division States will not be bound to
710 relationships assumed in Reclamation's models for other operational activities.
711

712 **6. Accounting and Recovery**

713
714 DROA requires monitoring of Drought Response Operations, including releases from or recovery
715 at the upstream Initial Units.⁵² One purpose of monitoring is to determine when to conclude
716 Drought Response Operations, including the recovery of released water.

717
718 *6.1. Accounting*

719
720 Monitoring will be achieved through the development, implementation, and maintenance
721 of a monthly water accounting system that exhibits the functional requirements and salient
722 characteristics described hereafter:

723
724
725 1) Definitions:

- 726 a. Account: A ledger of credit and debit entries kept individually for each upstream
727 Initial Unit to record the release or recovery of Drought Response Operation water.
728 The DROA Parties have established Accounts beginning with the initial
729 adjustment of releases from each upstream Initial Unit.
730
731 b. Account Balance: The status of releases or recovery of Drought Response
732 Operation water in each upstream Initial Unit reservoir portrayed in each Account.
733 This is calculated as the sum of all Drought Response Operation released volumes
734 minus the sum of all Drought Response Operation recovered volumes to date.
735
736 c. Credit and Debit: For accounting purposes, the terms Credit and Debit are used to
737 reflect released (Credit) and recovered (Debit) volumes of water, respectively,
738 from each Initial Unit.
739
740 d. Actual Condition: This reflects the condition of each upstream Initial Unit under
741 Drought Response Operations and is the observed reservoir elevation, storage, and
742 discharge from each Unit.
743
744 e. Regular Operating Target Elevation: Established elevations for each Initial Unit
745 that indicates full recovery when met as described in Attachment C through E.
746
747 f. Operations Without Drought Response Operations: Facility operations had the
748 Storage Condition Without Drought Response been the Actual Condition.
749 Operations Without Drought Response require operational judgement and will be
750 consistent with historical operations and current operational policy at each
751 upstream Initial Unit reservoir.
752

⁵² DROA § II(A)(3)(h).

753 g. Storage Condition Without Drought Response: This is the storage condition of
754 each upstream Initial Unit had Drought Response Operations not been
755 implemented. The Storage Condition Without Drought Response for each
756 upstream Initial Unit is its observed storage plus its current Drought Response
757 Operation Account Balance.
758

759 2) The accounting platform will be integrated into Reclamation's monthly operations
760 modeling.
761

762 3) Monthly accounting will include forward-looking projections and backward-looking
763 calculations:
764

765 a. Forward-looking projection: Through modeling, a projection for each Account
766 Balance will be determined for planning purposes only. An upstream Initial Unit's
767 actual Account Balance can only be updated in the backward-looking mode
768 (below). Forward-looking projections will not prevent facility operators from
769 making necessary operational adjustments in response to emerging information.
770

771 b. Backward-looking calculation: This calculates each month's Credit or Debit to
772 each Account Balance by subtracting the release volume that would have occurred
773 without Drought Response Operations from the actual volume released (with
774 Drought Response Operations). Each month's Credit or Debit is added to the prior
775 Account Balance to calculate the current month's Account Balance.
776

777 4) Monthly Reporting:
778

779 a. Monthly reports are available for each upstream Initial Unit Account and contains
780 the following:

781 i. Drought Response Operation Credits;

782 ii. Drought Response Operation Debits; and

783 iii. End of month Account Balance.
784

785
786
787 b. Monthly reporting will continue for each upstream Initial Unit until recovery is
788 completed, and will resume each time an Account Balance accrues.
789

790 Accounting for release and recovery volumes is based on releases measured according to
791 the established method at each upstream Initial Unit. Entries in the appropriate Account
792 for each upstream Initial Unit will be fully documented and supportable. Ledger values
793 (Credits and Debits) will be traceable to their origination, including as available: meter
794 readings through powerplants and bypasses, modeling rulesets, annual operation plans
795 including EISs, RODs, and approved experimental releases and/or documentation of
796 decision-making related to the Condition Without Drought Response Operations.

797
798 The monthly operations model and the accounting results are available to the public on
799 Reclamation’s website. Reclamation will consider timely feedback from the public on
800 accounting results.

801
802 *6.2. Recovery*

803
804 An essential element of any Drought Response Operation is recovering any water released
805 as part of a Plan.⁵³ Full recovery occurs either when the Initial Unit has “recovered the
806 cumulative volume of water that was released” from a Drought Response Operation⁵⁴ or
807 when the Initial Unit “has reached the regular operating target elevation”⁵⁵ based on
808 hydrologic conditions and actual operating experience at each Initial Unit at the time of
809 recovery. Each proposed Plan will describe how recovery will be achieved under the
810 current or any future Plan, taking into consideration the status of recovery of each Initial
811 Unit from previous Drought Response Operation releases.

812
813 To minimize the risk of Lake Powell falling below the Target Elevation, recovery of
814 Drought Response Operations at the upstream Initial Units should occur after water
815 storage conditions at Lake Powell have improved.⁵⁶ However, this does not preclude the
816 potential for Dual Operations, in accordance with DROA⁵⁷.

817
818 DROA specifies that operations to recover storage after a Drought Response Operation
819 has been implemented will continue as long as necessary to recover from any Drought
820 Response Operations conducted before October 1, 2026.⁵⁸

821
822 Specifics regarding recovery for each upstream Initial Unit are in Attachments C through

⁵³ DROA § II(A)(3)(e): “Recovery of Storage at CRSPA Initial Units: Recovery of storage at the CRSPA Initial Units is essential to any drought response operation. Consistent with Section II.A.3.b-c, the drought response operations process will be completed only after each CRSPA Initial Unit has recovered the storage as defined below.”

⁵⁴ DROA § II(A)(3)(e)(i)(1): “The CRSPA Initial Unit, operating consistent with Section II.A.3.b, has recovered the cumulative volume of water that was released for implementation of drought response operations to minimize the risk of Lake Powell declining below the Target Elevation.”

⁵⁵ DROA § II(A)(3)(e)(i)(2): “The water elevation at the CRSPA Initial Unit has reached the regular operating target elevation for that facility, for example, deicing target elevation at the Aspinall Unit, the current end-of- water-year storage target at Navajo Reservoir, or the May 1 Upper Level Drawdown Elevation target at Flaming Gorge Reservoir.”

⁵⁶ DROA § II(A)(3)(e)(i): “Storage at a CRSPA Initial Unit is recovered when the first of either of the following occurs: (1) The CRSPA Unit...has recovered the cumulative volume of water that was released for implementation of drought response operations...; or (2) the water elevation at the CRSPA Initial Unit has reached the regular operating target elevation for that facility”

⁵⁷ DROA § II(A)(3)(e)(ii): “Hydrologic variability within the Upper Basin may render releases from a CRSPA Initial Unit ineffective in achieving the intent and goal of this Drought Response Operations Agreement...Moreover, drought response releases from any CRSPA Initial Unit do not preclude recovery of storage actions at another Unit simultaneously.”

⁵⁸ DROA § II(A)(6): “...Operations to recover storage after a drought response operation has been implemented will continue as long as necessary to recover from any drought response operations taken before October 1, 2026.”

823 E.

824

825 **7. Consultation, Coordination, & Outreach**

826

827 DROA contains various provisions for consultation, coordination, and outreach from the DROA
828 Parties to non-DROA entities during the development and implementation of Plans.⁵⁹ In years
829 when Plans are needed, the DROA Parties anticipate developing draft Plans during the late winter
830 and early spring (February to April) of each year as more reliable hydrologic information
831 becomes available. The DROA Parties anticipate the finalization of yearly plans in April of each
832 year, with implementation occurring throughout the year until April of the following year. As
833 such, the consultation, coordination, and outreach described in this section will need to occur
834 during the February to April time period each year. The DROA Parties intend to provide draft
835 Drought Response Operations concepts and Plans as they become available,⁶⁰ usually during this
836 February to April time period each year.

837

838 Consistent with the DROA provisions, the DROA Parties will conduct consultation, coordination,
839 and outreach as described in Section 7 of this Framework below. Because the timeframes for
840 developing or modifying a Plan will be limited and the data that informs development or
841 modification of a Plan will change frequently, a Plan or amendment may need to be implemented
842 quickly due to changing hydrology. Given time constraints, the DROA Parties will use their best
843 efforts to satisfy the consultation, coordination, and outreach provisions as described in Section 7
844 of this Framework, but anticipate that consultation, coordination and outreach will not be as
845 extensive for an amendment as during the development of the DROA Plan for a given year.

846

847 *7.1. Consultation with the Lower Division States*

848

849 DROA requires consultation with the Lower Division States several times. First, prior to
850 finalizing a Plan, DROA requires providing the terms of a draft Plan to the Governors’
851 Representatives of the Lower Division States⁶¹, and parties to the 2019 DCP Companion
852 Agreement. DROA then requires the DROA Parties to consider and address, as
853 appropriate, any questions or concerns regarding the terms of the draft Plan.⁶²

854

855 Second, when implementing a Plan, the DROA Parties will “[b]e available to respond to
856 the Lower Division States’ questions or concerns, should they arise, regarding ongoing
857 implementation of Drought Response Operations.”⁶³

858

⁵⁹ During “Emergency Action,” as defined in DROA, DROA §§ II(A)(3)(j) & II(A)(4)(e). The Department committed to conduct any Emergency Action, “to the greatest extent practicable, with advance consultation and coordination with the Upper Division States, through the Commission, and following consultation with the Governors’ Representatives of the Colorado River Basin States consistent with the Agreement Concerning Colorado River Drought Contingency Management and Operations (“Companion Agreement”).”

⁶⁰ DROA § II(A)(5).

⁶¹ DROA § II(A)(4)(b)(iii).

⁶² DROA § II(A)(4)(b)(iii).

⁶³ DROA § II(A)(4)(d)(ii).

859 Third, the DROA Parties will consult with the Lower Division States when “the Parties
860 agree that the finalized Drought Response Operations Plan needs to be modified,
861 amended, or supplemented for the purpose of more specifically clarifying the scope and
862 detail of recovery of storage.”⁶⁴

863 864 *7.2. Participation of Upper Basin Tribes*

865
866 Each Upper Basin Tribe (Ute Indian Tribe, Paiute Indian Tribe of Utah, Southern Ute
867 Indian Tribe, Ute Mountain Ute Tribe, Navajo Nation, and Jicarilla Apache Nation) may
868 separately designate one representative to participate in and provide recommendations to
869 any working group established by the DROA Parties to help draft, develop, implement,
870 analyze proposals for, or monitor any Drought Response Operation. Each Upper Basin
871 Tribe may designate different representatives for any group in which that Tribe has chosen
872 to participate, or multiple Tribes may designate the same, single representative to
873 participate in any group. The representatives designated by the Upper Basin Tribes shall
874 be referred to collectively as the Upper Basin Tribal Representatives. Participation by any
875 Upper Basin Tribe in any working group shall be wholly voluntary. Participation in the
876 groups shall be in addition to, and shall not be construed to replace, opportunities that any
877 individual Tribe, in the Upper Basin or otherwise, has for formal consultation with the
878 United States regarding drought response, operations of Initial Units, or any other matter.

879 880 *7.3 Outreach and consultation with Native American Tribes*

881
882 DROA requires outreach and notification to Native American Tribes “relevant to the
883 respective CRSPA Initial Units of plans and concepts for drought response operations as
884 they become available.”⁶⁵ The DROA Parties will provide regular updates on the status of
885 Drought Response Operations planning for Native American Tribes as information
886 becomes available.

887
888 The DROA Parties will offer opportunities for all Colorado River Basin Native American
889 Tribes to participate. Participation may include providing written input on the
890 development of a Plan, exchanging background documents and data, and meeting for
891 individual informal discussions.

892
893 Additionally, the Department will offer informal and formal Government-to-Government
894 consultations with Tribes. Discussions between the Tribes and the Department do not
895 preclude other DROA Parties from discussing potential Plans with Tribes as appropriate.

896
897 Any DROA discussions with Native American Tribes are in addition to and do not replace

⁶⁴ DROA § II(A)(4)(d)(iv).

⁶⁵ DROA § II(A)(5): “public outreach regarding drought response operations will include, but may not be limited to, notifying Native American Tribes, local governments, interested stakeholders, and operational and technical workgroups relevant to the respective CRSPA Initial Units of plans and concepts for drought response operations as they become available.”

898 opportunities that Tribes may have for input and consultation regarding operations of
899 Initial Units or other authorities that govern the Tribal-federal government relationships.
900

901 DROA requires that water rights and other interests of Tribal Nations, often memorialized
902 in settlements and contracts, be considered as part of Initial Unit Operations that cannot
903 change as part of Drought Response Operations.⁶⁶ As part of development of this
904 Framework, several Tribal Nations commented on the need to protect their water rights
905 and other aspects of Initial Unit operations as part of any Plan. Tribal involvement in the
906 development of Drought Response Operations will ensure that Tribal rights remain
907 protected and that Drought Response Operations consider the preferences of individual
908 Tribes within the flexibilities available for a particular Drought Response Operation.
909

910 *7.4. Coordination within the Department of the Interior*

911
912 Reclamation will arrange for discussions and coordination among agencies within the
913 Department regarding Drought Response Operations, as appropriate. Such discussions
914 and coordination are in addition to and do not replace coordination with Departmental
915 agencies that occur as part of the Initial Units' operations.
916

917 *7.5. Coordination with WAPA*

918
919 Reclamation has an agreement to consult with WAPA⁶⁷ regarding Drought Response
920 Operations and will coordinate with WAPA and WAPA's firm electric service customers
921 and representatives pursuant to that agreement. Such coordination is in addition to and
922 does not replace discussions with WAPA that occur as part of the Initial Units' operations.
923

924 *7.6. Coordination with Initial Unit Workgroups*

925
926 The DROA Parties will coordinate with the appropriate workgroups involved with Initial
927 Unit operations including, but not limited to the Glen Canyon Dam Adaptive Management
928 Work Group, Flaming Gorge Technical Work Group, San Juan River Basin Recovery
929 Implementation Program, and Upper Colorado River Endangered Fish Recovery Program,
930 and utilize existing Initial Unit processes to address operations.
931

932 *7.7. Outreach to other stakeholders and interested entities*

933
934 The DROA Parties will provide regular updates on the status of Drought Response
935 Operations planning for water users, NGOs, other stakeholders, and interested entities.
936 The DROA Parties will also offer opportunities for such entities and stakeholders to
937 provide written comments on any draft Plan. The Upper Division States have the primary

⁶⁶ DROA § II(A)(3)(b).

⁶⁷ Contract No. 19-WC-40-746, dated June 7, 2019 between Bureau of Reclamation and Western Area Power Administration.

938 responsibility to conduct outreach to water users within their respective state, while the
939 Federal government retains responsibility to conduct outreach concerning Federal
940 contracts.

941
942 *7.8. Coordination among the DROA Parties*

943
944 DROA requires that the DROA Parties “will coordinate on any public outreach for
945 drought response operations at the CRSPA Initial Units” and that “[s]uch coordination
946 will begin prior to outreach activities with the goal of streamlining discussions and
947 avoiding or resolving differences.⁶⁸ A DROA Party conducting public outreach activity
948 will notify the other DROA Parties in advance of such outreach and, if applicable, be
949 prepared to describe the anticipated scope of such outreach. Public outreach under this
950 provision does not include internal communications within an individual DROA Party’s
951 organization necessary for that DROA Party’s internal consideration of a proposed Plan.

952
953 Pursuant to DROA, the Upper Division State Commissioners and the Upper Colorado
954 River Commission (UCRC) will review and consider a final Plan after consultation with
955 the Governors’ Representatives of the Lower Division States. Upon approval of the final
956 Plan by both the Upper Division State Commissioners and the UCRC, the UCRC will
957 forward the final Plan to the Secretary for consideration and approval.⁶⁹

958
959 Attachment H describes consultation, coordination, and outreach that was conducted. It
960 may not be possible for all concerns raised during Outreach to be mitigated.

961
962 **8. Monitoring and Potential Amendments During Plan Implementation**

963
964 DROA requires monitoring activities as appropriate as part of any Plan.⁷⁰ Modeling projections
965 relied upon for a Plan cannot predict precise conditions at a given time in the Upper Basin.
966 Accordingly, the DROA Parties intend for any Plan to provide sufficient flexibility to begin, end,
967 or adjust Drought Response Operations as needed based on actual hydrologic conditions.

968
969 During the implementation of a Plan, the DROA Parties will coordinate weekly, or at such
970 intervals as otherwise agreed to, to conduct monitoring activities related to the Drought Response
971 Operations. Monitoring activities will include consideration of the most current hydrologic
972 conditions and projections as described in Section 3 herein, as well as application of the principles
973 described in Section 5 herein. The DROA Parties may amend Plans as necessary based upon
974 changing conditions.

975

⁶⁸ DROA § II(A)(5).

⁶⁹ DROA § II(A)(4)(c).

⁷⁰ DROA § II(A)(3)(h): “Monitoring: The Parties agree to include monitoring activities as appropriate as part of any drought response operations (release or recovery of storage). The Parties will incorporate the results of such monitoring into consideration of whether to begin, end, or modify drought response operations.”

976 Based upon monitoring activities, and only upon mutual agreement of the DROA Parties,⁷¹ any
977 Plan may be modified, adjusted, or ended through the adoption of an amendment to the applicable
978 Attachment(s). Amendments to Attachments will include all of the types of information included
979 in the original Attachment(s) and will incorporate a description of monitoring activities and
980 monitoring activity results. Amendments to Attachments will describe the reasons for the
981 amendment(s) and will supersede the original Attachment(s) or any preceding amendments to the
982 extent identified in the Amendment.

983
984 Any Plan amendments may need to be implemented quickly due to changing hydrology to
985 achieve the purpose and intent of a Plan.⁷² Given time constraints, the DROA Parties will use
986 their best efforts to satisfy the consultation, coordination, and outreach provisions as described in
987 Section 7 of this Framework, but anticipate that consultation, coordination and outreach will not
988 be as extensive as during the development of the DROA Plan for a given year.

989
990 In addition to the monitoring activities described in this Section, any DROA Party may request a
991 meeting with other DROA Parties to consider any Plan amendments.

992

DRAFT

⁷¹ The Secretary retains all applicable authority as described in DROA § II(A)(4)(e).

⁷² DROA § II(A)(4)(b)(ii): Plans will “Provide for timely adjustments in drought response operations based upon actual monthly hydrology to achieve the purpose and intent of this Drought Response Operations Agreement.”

993
994 **9. Approval by Upper Division States Commissioners and the Upper Colorado River**
995 **Commission**

996
997 On the date and year written below, the Upper Division States Commissioners and the
998 Upper Colorado River Commission have approved this 2026 Plan and direct the Upper
999 Colorado River Commission to forward this final 2026 Plan to the Secretary for
1000 consideration and approval.

1001
1002
1003 THE STATE OF COLORADO

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1007
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1009 _____
1009 Rebecca Mitchell
1010 Colorado Commissioner, Upper Colorado
1011 River Commission
1012 Governor’s Representative
1013

1014
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1016
1017 THE STATE OF NEW MEXICO

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1023 _____
1024 Estevan R. López
1025 State of New Mexico Commissioner,
1026 Upper Colorado River Commission
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1030 THE STATE OF UTAH

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1035 _____
1036 Gene Shawcroft
1037 State of Utah Commissioner,
1038 Upper Colorado River Commission

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THE STATE OF WYOMING

Brandon Gebhart
State of Wyoming Commissioner,
Upper Colorado River Commission

UPPER COLORADO RIVER COMMISSION

Chuck Cullom
Executive Director
Upper Colorado River Commission

