

Title: Assistant Secretary – Water and Science Action Plan for SO 3417 – Addressing the National Energy Emergency

Summary: Provide summary of action plan to accomplish the policy goals for this SO.

The Office of the Assistant Secretary – Water and Science will utilize the Nexus of Energy and Water for Sustainability Research Development & Demonstration (NEWS RD&D) Office, mandated by Section 1010 of Energy Act of 2020 to develop a Strategic Plan to identify, coordinate and advance priorities under this, and other applicable Secretarial Orders related to hydroelectric energy development.

U.S. Geological Survey

The U.S. Geological Survey will use its existing non-emergency authorities to identify domestic energy and critical mineral resources and support other DOI Bureaus' permitting and leasing efforts.

Bureau of Reclamation

(b) (5)

Central Utah Project Completion Act Office

(b) (5)

Assistant Secretary – Water and Science
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(b) (5)

Top priorities: List up to the top 5 priorities for this SO and provide justification for each recommendation.

U.S. Geological Survey

(b) (5)

Bureau of Reclamation

(b) (5)

Central Utah Project Completion Act Office

(b) (5)

Additional Information: Provide any other additional information that needs to be considered to successfully implement this action plan.

- The actions presented in Water and Science Action Plan for SO 3418 – Unleashing American Energy also fulfill the response to this Secretarial Order.

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- Milestones listed under "Identify domestic mineral resources, including but not limited to on Federal lands" are (b) (5)

Responsive to	SO 3417 – Addressing the National Energy Emergency				
Accountable	U.S. Geological Survey				
Initiative					
Sec. 2.a. All Bureaus and Offices will identify the emergency authorities available to them, as well as all other legal authorities, to facilitate the identification, permitting, leasing, development, production, transportation, refining, distribution, exporting, and generation of domestic energy resources and critical minerals including, but not limited to, on Federal lands and the Outer Continental Shelf.					
Sec. 2.b. All Bureaus and Offices will identify all relevant emergency and other legal authorities available to them to expedite the completion of all authorized and appropriate infrastructure, energy, environmental, and natural resources projects within their jurisdiction to perform or to advance, including use of all authorities to facilitate the supplying, refining, transporting, and exporting of energy including, but not limited to, in and through the West Coast of the United States, the Northeast of the United States, and Alaska.					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Identify legal authorities to facilitate identification of domestic energy resources and critical minerals	Various - see report due 2/21/25 below.				(b) (5)
Milestones	Due Date	Measurable Metrics			

(b) (5)

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Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Identify domestic mineral resources including, but not limited to, on Federal lands.	Various - see report due 2/21/25 above	(b) (5)			
Milestones	Due Date	Measurable Metrics			
(b) (5)					

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(b) (5)

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(b) (5)

Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Identify domestic energy resources including, but not limited to Federal lands.	Various - see report above	(b) (5)			
Milestones	Due Date	Measurable Metrics			

(b) (5)

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(b) (5)

Assistant Secretary – Water and Science
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(b) (5)

Responsive to	SO 3417 – Addressing the National Energy Emergency				
Accountable	Bureau of Reclamation				
Initiative					
Sec. 2.a. All Bureaus and Offices will identify the emergency authorities available to them, as well as all other legal authorities, to facilitate the identification, permitting, leasing, development, production, transportation, refining, distribution, exporting, and generation of domestic energy resources and critical minerals including, but not limited to, on Federal lands and the Outer Continental Shelf.					
Sec.2.b. All Bureaus and Offices will identify all relevant emergency and other legal authorities available to them to expedite the completion of all authorized and appropriate infrastructure, energy, environmental, and natural resources projects within their jurisdiction to perform or to advance, including use of all authorities to facilitate the supplying, refining, transporting, and exporting of energy including, but not limited to, in and through the West Coast of the United States, the Northeast of the United States, and Alaska.					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Use of emergency authorities	Various	(b) (5)			

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Milestones	Due Date	Measurable Metrics
		

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Responsive to	SO 3417 – Addressing the National Energy Emergency				
Accountable	Central Utah Project Completion Act Office				
Initiative					
<p>Sec. 2.a. All Bureaus and Offices will identify the emergency authorities available to them, as well as all other legal authorities, to facilitate the identification, permitting, leasing, development, production, transportation, refining, distribution, exporting, and generation of domestic energy resources and critical minerals including, but not limited to, on Federal lands and the Outer Continental Shelf.</p> <p>Sec.2.b. All Bureaus and Offices will identify all relevant emergency and other legal authorities available to them to expedite the completion of all authorized and appropriate infrastructure, energy, environmental, and natural resources projects within their jurisdiction to perform or to advance, including use of all authorities to facilitate the supplying, refining, transporting, and exporting of energy including, but not limited to, in and through the West Coast of the United States, the Northeast of the United States, and Alaska.</p>					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Development of hydropower (b) (5)	PL 102-575; Townsite and Power Development Act of 1906;	(b)	(5)		
Milestones	Due Date	Measurable Metrics			
		(b) (5)			

Title: Assistant Secretary – Water and Science Action Plan for SO 3418 – Unleashing American Energy

Summary: Provide summary of action plan to accomplish the policy goals for this SO.

The Office of the Assistant Secretary – Water and Science will utilize the Nexus of Energy and Water for Sustainability Research Development & Demonstration (NEWS RD&D) Office, mandated by Section 1010 of Energy Act of 2020 to develop a Strategic Plan to identify, coordinate and advance priorities under this, and other applicable Secretarial Orders related to hydroelectric energy development.

U.S. Geological Survey

The U.S. Geological Survey will identify domestic energy and critical mineral resources and support other DOI Bureaus’ permitting and leasing efforts.

Bureau of Reclamation

(b) (5)

Central Utah Project Completion Act Office

(b) (5)

Top Priorities: List up to the top 5 priorities for this SO and provide justification for each recommendation.

U.S. Geological Survey

(b) (5)

Assistant Secretary – Water and Science
Action Plan for SO 3418 – Unleashing American Energy

(b) (5)

Bureau of Reclamation

(b) (5)

Central Utah Project Completion Act Office

(b) (5)

Additional Information: Provide any other additional information that needs to be considered to successfully implement this action plan.

(b) (5)

Assistant Secretary – Water and Science
 Action Plan for SO 3418 – Unleashing American Energy

(b) (5)

Responsive to	SO 3418 – Unleashing American Energy				
Accountable	U.S. Geological Survey				
Initiative					
Sec. 3.g. Ensuring that no Federal funding is employed in a manner contrary to the principles set out above, unless required by law					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Review Infrastructure Investment and Jobs Act (IIJA) and Inflation Reduction Act (IRA) funding to determine whether a pause in disbursement of IIJA and IRA funds set forth in M-25-11 conflicts with the direction set forth in EO 14154.	OMB Memo M-25-11 – The White House - January 21, 2025 EO 14154 - Unleashing American Energy	(b) (5)			

Assistant Secretary – Water and Science
Action Plan for SO 3418 – Unleashing American Energy

Milestones	Due Date	Measurable Metrics
(b) (5)		
<p>Sec. 4.c. In addition to the review described in subparagraph (a) and (b) above, all Assistant Secretaries are hereby directed to include in their action plans the steps to be taken that would accomplish, at a minimum, the following – see bulleted list.</p>		

Assistant Secretary – Water and Science
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Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
<p>Earth Mapping Resources Initiative (Earth MRI): Prioritize efforts to accelerate the detailed geological mapping of the United States, with a focus on locating previously unknown deposits of critical minerals.</p>	<p>Infrastructure Investment and Jobs Act, (P.L. 117-58, enacted 11/15/2021) Sec. 40201. Earth MRI and Sec. 40203 National Geologic and Geophysical Data Preservation Program</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> (b) (5) </div>			
Milestones	Due Date	Measurable Metrics			
<div style="display: flex; justify-content: space-around; align-items: center;"> (b) (5) </div>					

(b) (5)

Assistant Secretary – Water and Science
 Action Plan for SO 3418 – Unleashing American Energy

(b) (5)

Initiative

Sec. 4.c. In addition to the review described in subparagraph (a) and (b) above, all Assistant Secretaries are hereby directed to include in their action plans the steps to be taken that would accomplish, at a minimum, the following – see bulleted list.

Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Update the U.S. Geological Survey's list of critical minerals including the potential to include uranium	Energy Act of 2020, Section 7002 Mineral Security (P.L. 116-260, enacted 12/27/2020)	(b) (5)			

Milestones	Due Date	Measurable Metrics
(b) (5)		

(b) (5)

Assistant Secretary – Water and Science
Action Plan for SO 3418 – Unleashing American Energy

Initiative					
<p>Sec. 4.c. USGS will work with the BLM to develop standardized resource data, analyses, and tools that BLM can use to accelerate the planning and permitting cycle for energy and mineral resource development projects. This work supports the directives to take actions that prioritize reducing barriers to the use of Federal lands for energy development, consistent with the principle of multiple use; and actions to implement new and amended policies and procedures to increase the efficiency in the Bureau of Land Management's adjudication of applications for permits to drill.</p>					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Increase domestic energy production, reduce barriers to use of Federal lands	Federal Land Policy and Management Act of 1976 (43 U.S.C. 1701 et seq.; 43 U.S.C. 173) National Environmental Policy Act of 1969 (42 U.S.C. 4331) .	<div style="display: flex; justify-content: space-around; align-items: center;"> (b) (5) </div>			
Milestones	Due Date	Measurable Metrics			
<div style="display: flex; justify-content: space-around; align-items: center;"> (b) (5) </div>					

Assistant Secretary – Water and Science
Action Plan for SO 3418 – Unleashing American Energy

Responsive to	SO 3418 – Unleashing American Energy				
Accountable	Bureau of Reclamation				
Initiative					
Sec. 4.a. Take all necessary steps to ensure any actions taken to implement the revoked EOs are terminated, including but not limited to, terminating any contract or agreement on behalf of entities or programs abolished in the revoked EOs in section 3.					
Sec. 4.b. In addition to the review described in subparagraph (a) above, all Assistant Secretaries should include in the plan required by this section, steps that, as appropriate, will be taken to suspend, revise, or rescind documents, including but not limited to, the following regulations, Secretary's Orders (SO), Solicitor's Opinions, Instruction Memoranda (IM), and Departmental Manuals (DM) – see bulleted list.					
Sec. 4.c. In addition to the review described in subparagraph (a) and (b) above, all Assistant Secretaries are hereby directed to include in their action plans the steps to be taken that would accomplish, at a minimum, the following – see bulleted list.					
Sec. 4.d. In addition to the review described in subparagraph (a), (b), and (c) above, the Assistant Secretary -Policy, Management and Budget is hereby directed to include in their action plan a review that includes, but is not limited to, their processes, policies, and programs for issuing grants, loans, contracts, or any other financial disbursements of all appropriated funds from the Inflation Reduction Act of 2022 (Public Law 117-169) and the Infrastructure Investment and Jobs Act (Public Law 117-58) for consistency with the policy in section 3.					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Increase Energy Generation	Reclamation Act of 1902	(b) (5)			
Milestones		Due Date	Measurable Metrics		
(b)		(5)	(5)		

(b) (5)

Assistant Secretary – Water and Science
Action Plan for SO 3418 – Unleashing American Energy

Responsive to	SO 3418 – Unleashing American Energy				
Accountable	Central Utah Project Completion Act Office				
Initiative					
Sec. 4.a. Take all necessary steps to ensure any actions taken to implement the revoked EOs are terminated, including but not limited to, terminating any contract or agreement on behalf of entities or programs abolished in the revoked EOs in section 3.					
Sec. 4.b. In addition to the review described in subparagraph (a) above, all Assistant Secretaries should include in the plan required by this section, steps that, as appropriate, will be taken to suspend, revise, or rescind documents, including but not limited to, the following regulations, Secretary's Orders (SO), Solicitor's Opinions, Instruction Memoranda (IM), and Departmental Manuals (DM) – see bulleted list.					
Sec. 4.c. In addition to the review described in subparagraph (a) and (b) above, all Assistant Secretaries are hereby directed to include in their action plans the steps to be taken that would accomplish, at a minimum, the following – see bulleted list.					
Sec. 4.d. In addition to the review described in subparagraph (a), (b), and (c) above, the Assistant Secretary -Policy, Management and Budget is hereby directed to include in their action plan a review that includes, but is not limited to, their processes, policies, and programs for issuing grants, loans, contracts, or any other financial disbursements of all appropriated funds from the Inflation Reduction Act of 2022 (Public Law 117-169) and the Infrastructure Investment and Jobs Act (Public Law 117-58) for consistency with the policy in section 3.					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Terminate actions for revoked EOs; Suspend inconsistent actions	PL 102-575	(b) (5)			
Milestones	Due Date	Measurable Metrics			
(b) (5)					

Title: Assistant Secretary – Water and Science Action Plan for SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis

Summary: Provide summary of action plan to accomplish the policy goals for this SO.

U.S. Geological Survey

The USGS provides science and data to support and inform decision making by other DOI bureaus and other Federal agencies related to supply chains, energy, and minerals.

Bureau of Reclamation



Assistant Secretary – Water and Science
Action Plan for SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis

The CUPCA Office does not independently promulgate regulations. (b) (5)

[Redacted]

Top Priorities: List up to the top 5 priorities for this SO and provide justification for each recommendation.

U.S. Geological Survey

N/A

Bureau of Reclamation

(b) (5)

Central Utah Project Completion Act Office

(b) (5)

Assistant Secretary – Water and Science
 Action Plan for SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis

(b) (5)

Additional Information: Provide any other additional information that needs to be considered to successfully implement this action plan.

- The attachment *Bureau of Reclamation Hydropower Value and Opportunities* **(b) (5)**

[Redacted text block]

Responsive to	SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis				
Accountable	U.S. Geological Survey				
Initiative					
<p>Sec. 5.b. The heads of Bureaus and Offices are responsible for conducting the review required in section 4 and reporting the results. They will also be responsible for ensuring completion of any implementation actions, including modifications to Bureaus and Offices policies, procedures, or practices that are inconsistent with the goals of the Cost-of-Living Memo. See Presidential Memo of January 20, 2025.</p>					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Ensure consistency of USGS policies, procedures, and practices with the Presidential Memo.	Energy Act of 2020	(b) (5)			

Milestones	Due Date	Measurable Metrics
(b) (5)		

(b) (5)

Assistant Secretary – Water and Science

Action Plan for SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis

Responsive to	SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis				
Accountable	Bureau of Reclamation				
Initiative					
<p>Sec. 5.b. The heads of Bureaus and Offices are responsible for conducting the review required in section 4 and reporting the results. They will also be responsible for ensuring completion of any implementation actions, including modifications to Bureaus and Offices policies, procedures, or practices that are inconsistent with the goals of the Cost-of-Living Memo. See Presidential Memo of January 20, 2025.</p>					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Identify activities that increase costs.	None identified	(b) (5)			
Milestones		Due Date	Measurable Metrics		
(b) (5)					

(b) (5)

Assistant Secretary – Water and Science

Action Plan for SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis

Responsive to	SO 3419 – Delivering Emergency Price Relief for American Families and Defeating the Cost-of-Living Crisis				
Accountable	Central Utah Project Completion Act Office				
Initiative					
<p>Sec. 5.b. The heads of Bureaus and Offices are responsible for conducting the review required in section 4 and reporting the results. They will also be responsible for ensuring completion of any implementation actions, including modifications to Bureaus and Offices policies, procedures, or practices that are inconsistent with the goals of the Cost-of-Living Memo. See Presidential Memo of January 20, 2025.</p>					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
Identify activities that increase costs.	None identified	(b) (5)			
Milestones		Due Date	Measurable Metrics		
(b) (5)					

Title: Assistant Secretary – Water and Science Action Plan for SO 3422 – Unleashing Alaska’s Extraordinary Resource Potential

Summary: Provide summary of action plan to accomplish the policy goals for this SO.

The Assistant Secretary – Water and Science bureaus and offices do not have direct equities or authorities in Alaska, however, the U.S. Geological Survey collects data and completed assessment for resources throughout the country, including Alaska. Notable assessments are listed below.

Top priorities: List up to the top 5 priorities for this SO and provide justification for each recommendation.

N/A

Additional Information: Provide any other additional information that needs to be considered to successfully implement this action plan.

N/A

Responsive to	SO 3422 – Unleashing Alaska’s Extraordinary Resource Potential				
Accountable	U.S. Geological Survey				
Initiative					
Sec. 6. Identify necessary and appropriate steps to execute the direction regarding all agency actions in EO 14153.					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
N/A	N/A	N/A	N/A	N/A	N/A
Milestones		Due Date	Measurable Metrics		
(b) (5)					

Assistant Secretary – Water and Science Action Plan for SO 3422 – Unleashing Alaska’s Extraordinary Resource Potential

Responsive to	SO 3422 – Unleashing Alaska’s Extraordinary Resource Potential				
Accountable	Bureau of Reclamation				
Initiative					
Sec. 6. Identify necessary and appropriate steps to execute the direction regarding all agency actions in EO 14153.					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
n/a	n/a	n/a	n/a	n/a	n/a
Milestones		Due Date	Measurable Metrics		
(b) (5)					

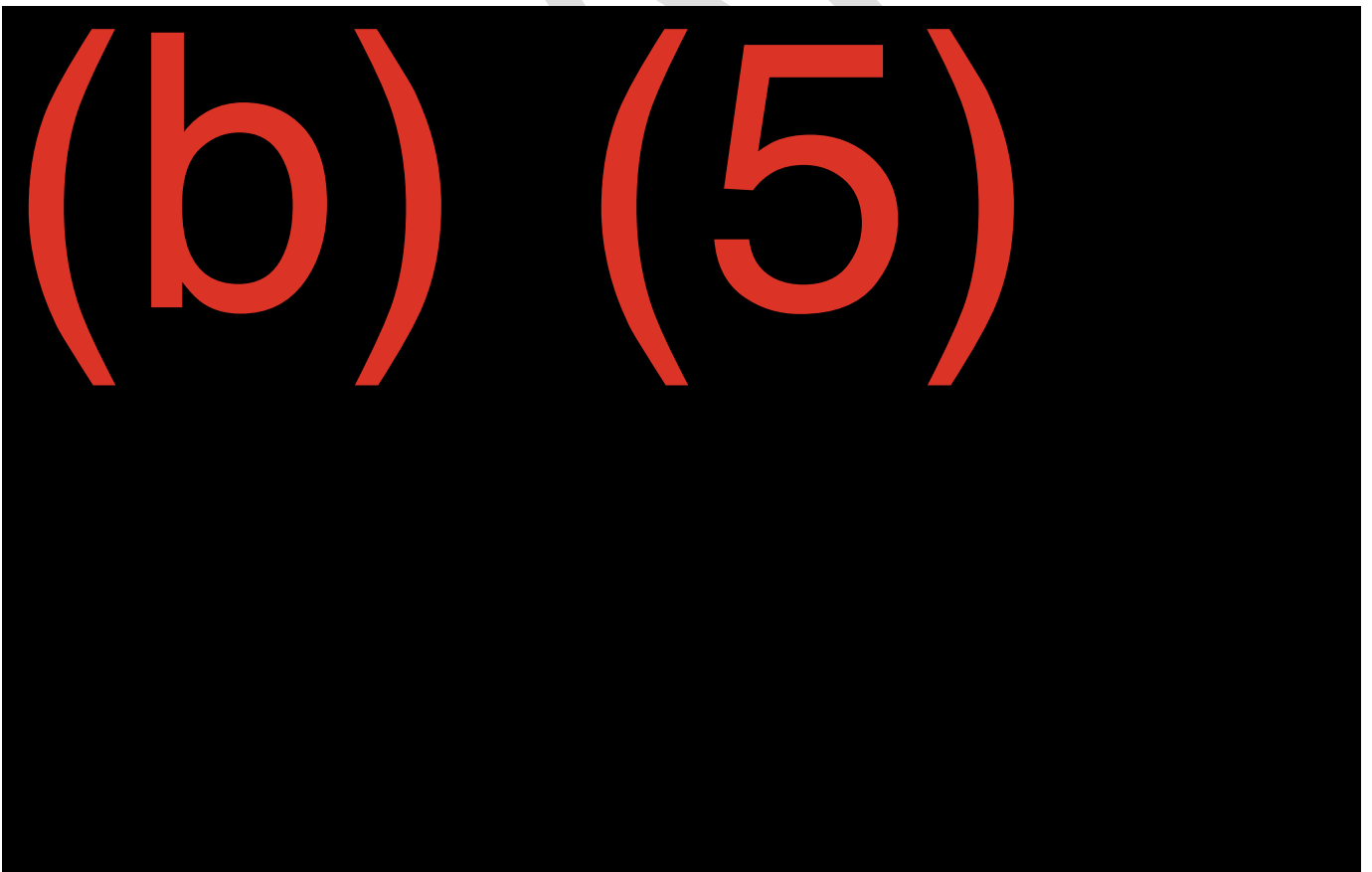
Responsive to	SO 3422 – Unleashing Alaska’s Extraordinary Resource Potential				
Accountable	Central Utah Project Completion Act Office				
Initiative					
Sec. 6. Identify necessary and appropriate steps to execute the direction regarding all agency actions in EO 14153.					
Policy goal(s)	Legal Authority	Recommendation	Barriers to Overcome	Metrics for Success	Final Due Date
N/A	N/A	N/A	N/A	N/A	N/A
Milestones		Due Date	Measurable Metrics		
N/A		N/A	N/A		

Reclamation Hydropower Value and Opportunities

Executive Summary



Background

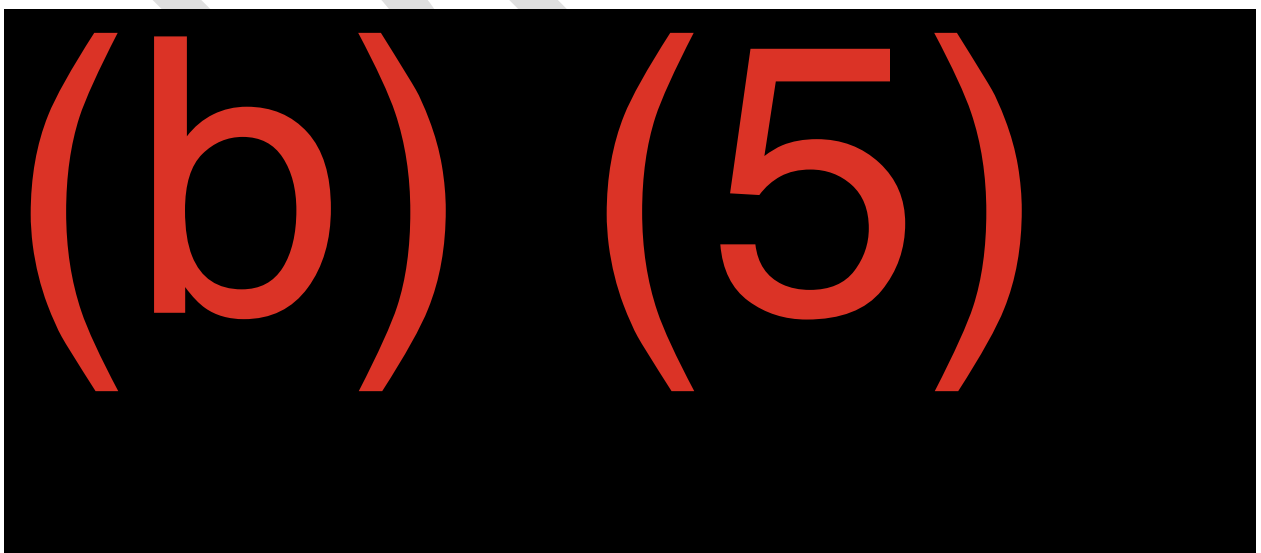


Existing Facilities Analysis

Capacity Factors by Plant



Ancillary Service Benefits



(b) (5)

(b) (5)

Enhancement Opportunities

Generation and Operational Efficiencies

(b) (5)

Enhance Hydropower Resources

(b) (5)

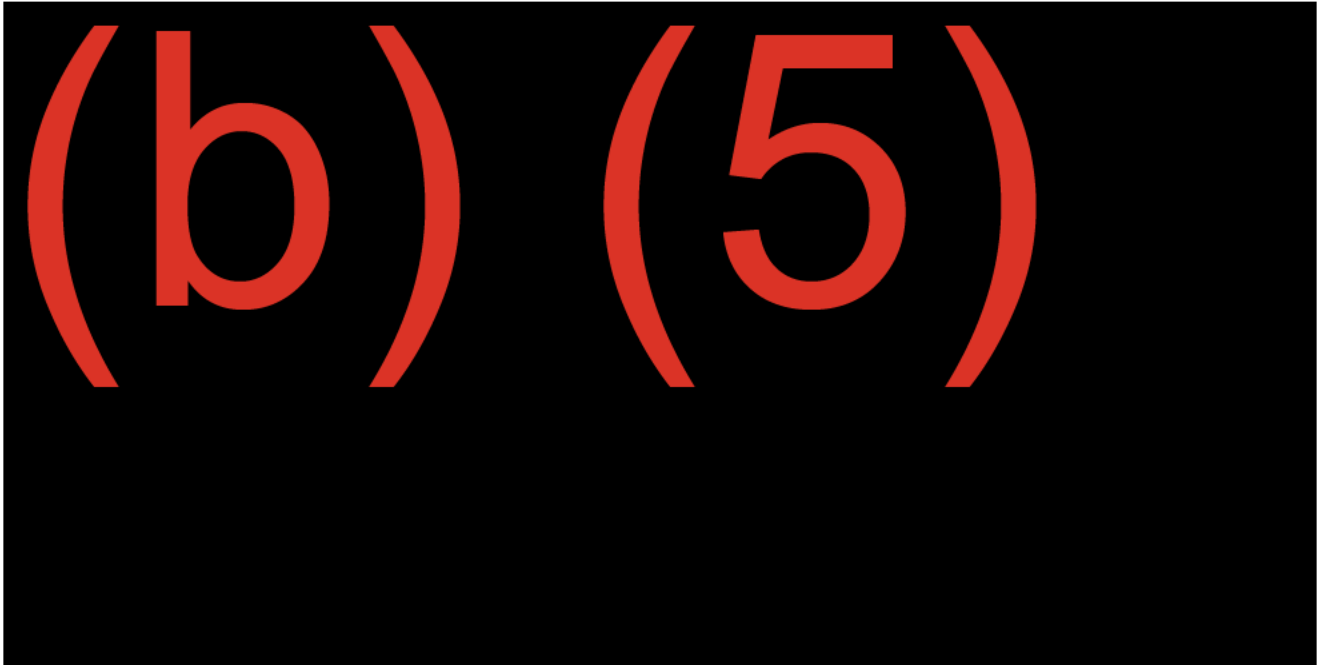


Table 1. Recently completed hydropower generation capacity and efficiency projects.

Region	Facility	Activity	Completion Date	Incremental MW/Efficiency ¹
(b) (5)				

Upgrade Priorities

(b) (5)

Table 2. Reclamation hydropower system upgrade priorities.

Region	Priority Upgrade
(b) (5)	

(b) (5)

(b) (5)

LOPP Proposals & Opportunities

(b) (5)

(b) (5)

(b) (5)

Pumped Storage Proposals & Opportunities

(b) (5)

(b) (5)

Next Steps

(b) (5)