



## Department of Energy

Bonneville Power Administration  
P.O. Box 3621  
Portland, Oregon 97208-3621

FREEDOM OF INFORMATION ACT/PRIVACY PROGRAM

June 4, 2014

In reply refer to: D-B1

Richard van Dijk  
Another Way BPA  
Ex 6

### FOIA #BPA-2014-00719-F

Dear Mr. van Dijk:

In reviewing our earlier response to your request for records that you made to the Bonneville Power Administration (BPA), under the Freedom of Information Act, 5 U.S.C. 552, where you requested:

“copies of all documents from the Transmission Management Committee (TMC) meetings that reference or relate to: Big Eddy-Knight, Central Ferry-Lower Monumental, I-5 Reinforcement Transmission projects and Network Open Season. The date range requested is from March 2013 through March 2014;”

BPA has determined that one document was withheld under Exemption 5 of the FOIA in error.

BPA is releasing it in its entirety.

I appreciate the opportunity to assist you. If you have any questions about this letter, please contact Kim Winn, FOIA Public Liaison, at 503-230-5273.

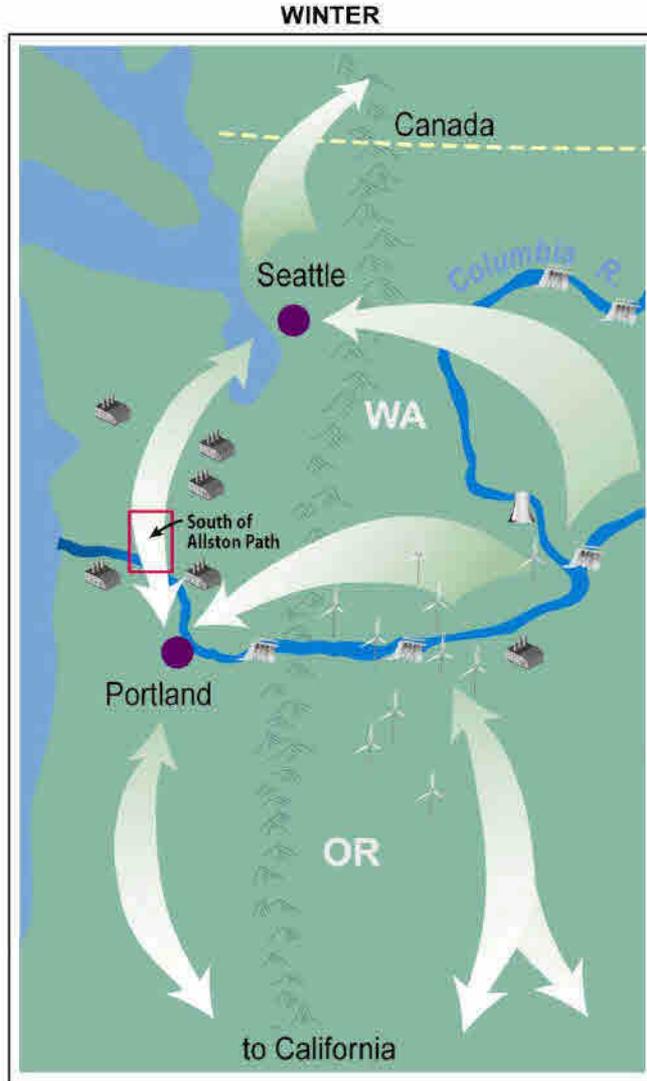
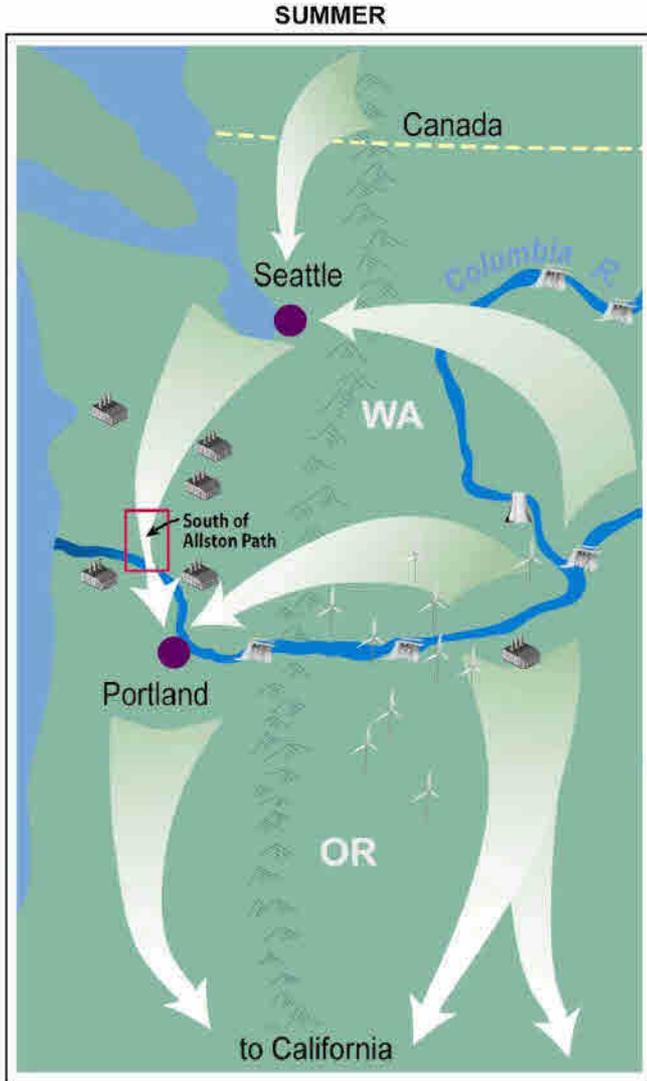
Sincerely,

*/s/Christina J. Munro*  
Christina J. Munro  
Freedom of Information/Privacy Act Officer

Enclosure: Responsive document

# Typical Power Flows

(winter and summer flows vary depending on generation and load patterns)





## Department of Energy

Bonneville Power Administration  
P.O. Box 3621  
Portland, Oregon 97208-3621

FREEDOM OF INFORMATION ACT/PRIVACY PROGRAM

April 28, 2014

In reply refer to: D-B1

Richard van Dijk  
Another Way BPA  
Ex 6

### FOIA #BPA-2014-00719-F

Dear Mr. van Dijk:

This is the final response to your request for records that you made to the Bonneville Power Administration (BPA), under the Freedom of Information Act, 5 U.S.C. 552.

#### **You requested:**

“Provide copies of all documents from the Transmission Management Committee (TMC) meetings that reference or relate to: Big Eddy-Knight, Central Ferry-Lower Monumental, I-5 Reinforcement Transmission projects and Network Open Season. The date range requested is from March 2013 through March 2014.”

#### **Response:**

BPA is withholding certain information as “non-responsive” and other information under Exemption 5 of the FOIA.

Exemption 5 protects “inter-agency or intra-agency memorandums or letters which would not be available by law to a party other than an agency in litigation with the agency” (5 U.S.C. § 552(b)(5)). In plain language, the exemption protects privileged documents. The deliberative process privilege protects the decision-making processes of government agencies. Records protected under this privilege must be (1) pre-decisional – created before the adoption of an agency policy or course of action, and (2) deliberative – making recommendations or expressing opinions on a legal or policy matter. In this case, we assert Exemption 5 to protect the policy and planning discussions about Network Open Season topics.

Records protected by Exemption 5’s pre-decisional and deliberative privilege may be discretionarily released. We considered discretionary release in accordance with the guidelines set forth in Attorney General Holder’s March 19, 2009, FOIA Memorandum. Agencies may decline to discretionarily release material when they reasonably foresee that disclosure would harm an interest protected by the statutory exemption. The deliberative process privilege protects the decision-making processes of government agencies, and Exemption 5 encourages open, frank discussions on matters of policy and protects against public confusion and the premature disclosure of proposed policies. Disclosure of

the protected draft material and internal discussions would have a chilling effect on future BPA discussions and decisions, and we decline to discretionarily release this material.

Pursuant to Department of Energy FOIA regulations at 10 C.F.R. § 1004.8, you may administratively appeal this response in writing within 30 calendar days. If you choose to appeal, please include the following:

- (1) The nature of your appeal - denial of records, partial denial of records, adequacy of search, or denial of fee waiver;
- (2) Any legal authorities relied upon to support the appeal; and
- (3) A copy of the determination letter.

Clearly mark both your letter and envelope with the words "FOIA Appeal," and direct it to the following address:

Director, Office of Hearings and Appeals:  
Department of Energy  
1000 Independence Avenue SW  
Washington DC 20585-1615

I appreciate the opportunity to assist you. If you have any questions about this letter, please contact Kim Winn, FOIA Public Liaison, at 503-230-5273.

Sincerely,

*/s/Christina J. Munro*  
Christina J. Munro  
Freedom of Information/Privacy Act Officer

Enclosure: CD

# NOS Project Updates

## **2008 NOS Projects - Monthly Status Report – March 2013**

### **Big Eddy-Knight - West of McNary Reinforcement Group 2:**

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

#### **Schedule**

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

#### **Budget**

- Total Project costs (Direct): \$180 million
- Actual costs to date (Direct as of 3/12/13): \$138.2 million

#### **Activities:**

##### **Last 30 days**

- Negotiations for easement rights with DNR and Klickitat County continues.
- Demobilized Wilson CC effective March 8, 2013 until June 1, 2013.
- Meetings between the BPA cultural resource staff and consulting parties occurred to discuss the adverse effect of the TCP site.
- KEC prepared documentation in response to the consulting parties assessment of the Big Eddy-Knight determination of the effects for Sk' in Cultural District.
- The design for the new fiber route (*Knight-Wautoma*) is in-progress.
- Conducted lessons learned session for Knight Substation post construction.
- Rescheduled key outage dates for the river crossing to reflect the current construction schedule.

##### **Next 30 days**

- Prepare documents for the solicitation of the last 14 miles of the transmission .
- Continue to obtain easement rights from Klickitat County.
- Continue cultural surveys of the last 14 miles to accessible properties.
- Finalize the easement document with DNR.
- Monitor the progress of the cultural resource tasks. Apply mitigation strategies if BPA enters into conflict resolution (i.e. terminate WCC if resolution is not met by mid-May).
- Site preparation to begin for the installation of the Wautoma shunt reactor.
- Finalize BNSF RR permit for construction.
- Continue centerline survey in the last 14 miles of construction.

## **2008 NOS Projects - Monthly Status Report – March 2013 (Cont.)**

### **Central Ferry-Lower Monumental**

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Theresa Berry

#### **Schedule**

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2013 Fall – Energization (project timeline currently under senior management review)

#### **Budget**

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (Direct as of 3/12/13) \$19.6 million

#### **Activities:**

##### **Last 30 days**

- Construction work for LOMO Control House expansion work is complete.
- 1/3 of the conductor has arrived.
- Transmission line right-of-way acquisition in progress.
- Deadline missed for 2014 energization.

##### **Next 30 days**

- Transmission line right-of-way acquisition in progress.

## **2008 NOS Projects - Monthly Status Report March 2013 (Cont.)**

### **I-5 Corridor Reinforcement**

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

#### **Schedule**

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2014 - Final Environmental Impact Statement (EIS) (New Date)
- 2014 - Record of Decision (New Date)
- Spring 2018 - Energization

#### **Budget**

- Total Project costs (Direct): \$459 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (Direct as of 3/12/13): \$30.2 million

#### **Activities:**

##### **Last 30 days**

- Completed negotiations for permission to enter property agreements with Weyerhaeuser and Port of Portland.
- Project Manager is calling individual stakeholders and landowners.
- Emmanuel Jaramillo leading effort with Port of Portland and Sundial Sub
- Receiving comments on DEIS, comment period ends March 25, 2013.
- Have been denying last minute requests for special meetings.

##### **Next 30 days**

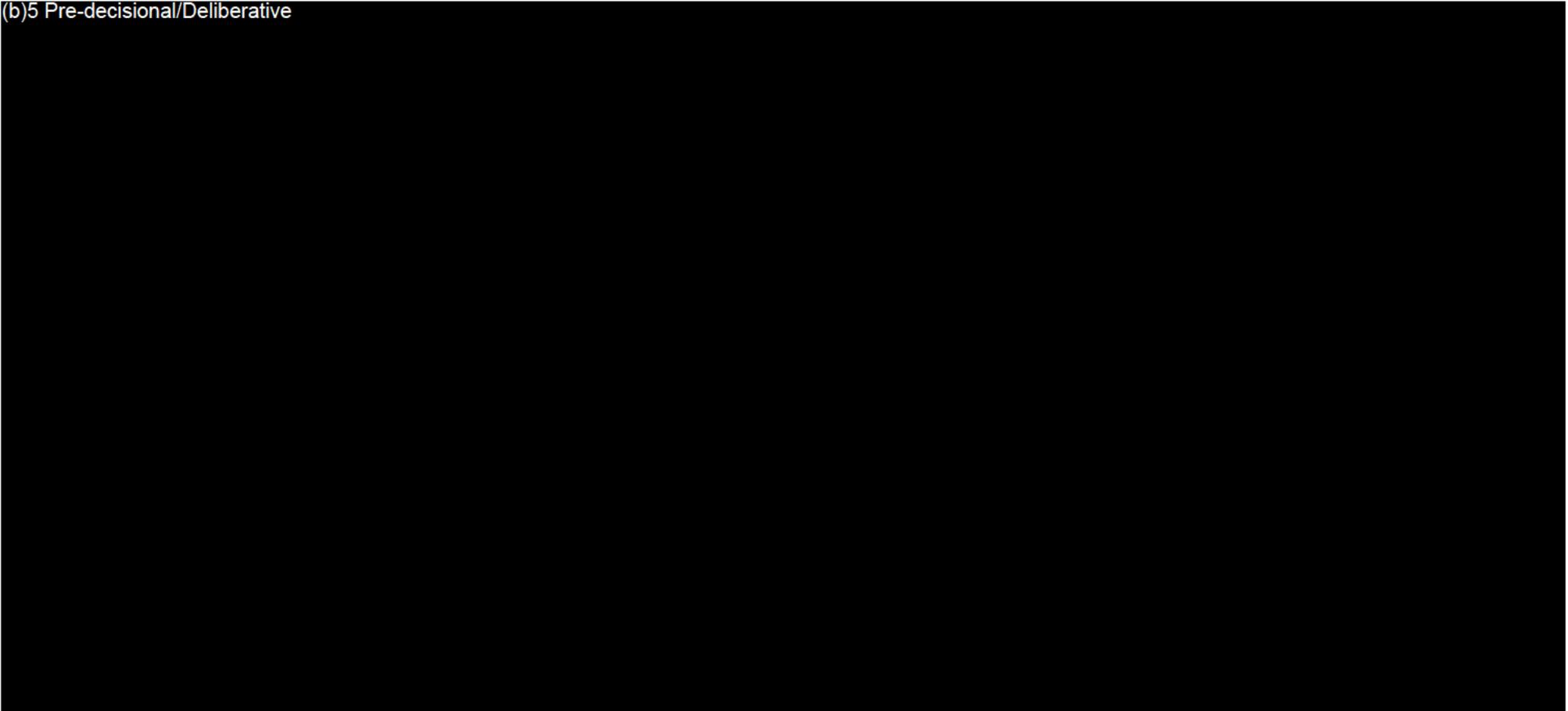
- Will organize and make available to the team, comments on the DEIS.
- Will begin considering requests by landowners to adjust preferred route.
- Will negotiate and renew agreements with large landowners.
- Will setup response process for comments on Draft EIS.
- Will finalize plans for requesting permission to enter property from individual landowners that includes \$1,000 compensation for 2 years of access.

# Legacy NOS Update



# M2W

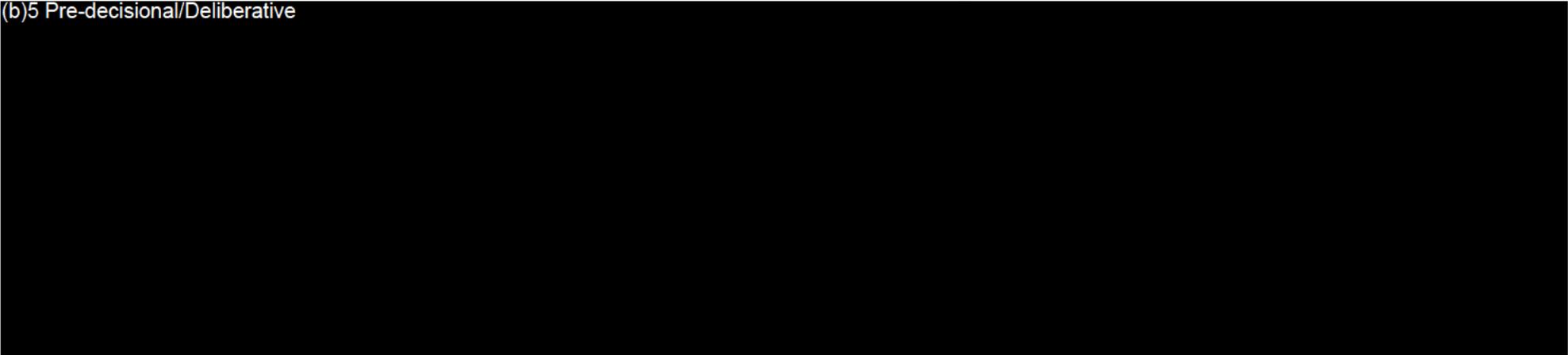
(b)5 Pre-decisional/Deliberative



# CF-LoMo

- Customer circumstances have changed creating need for service and related request to begin construction

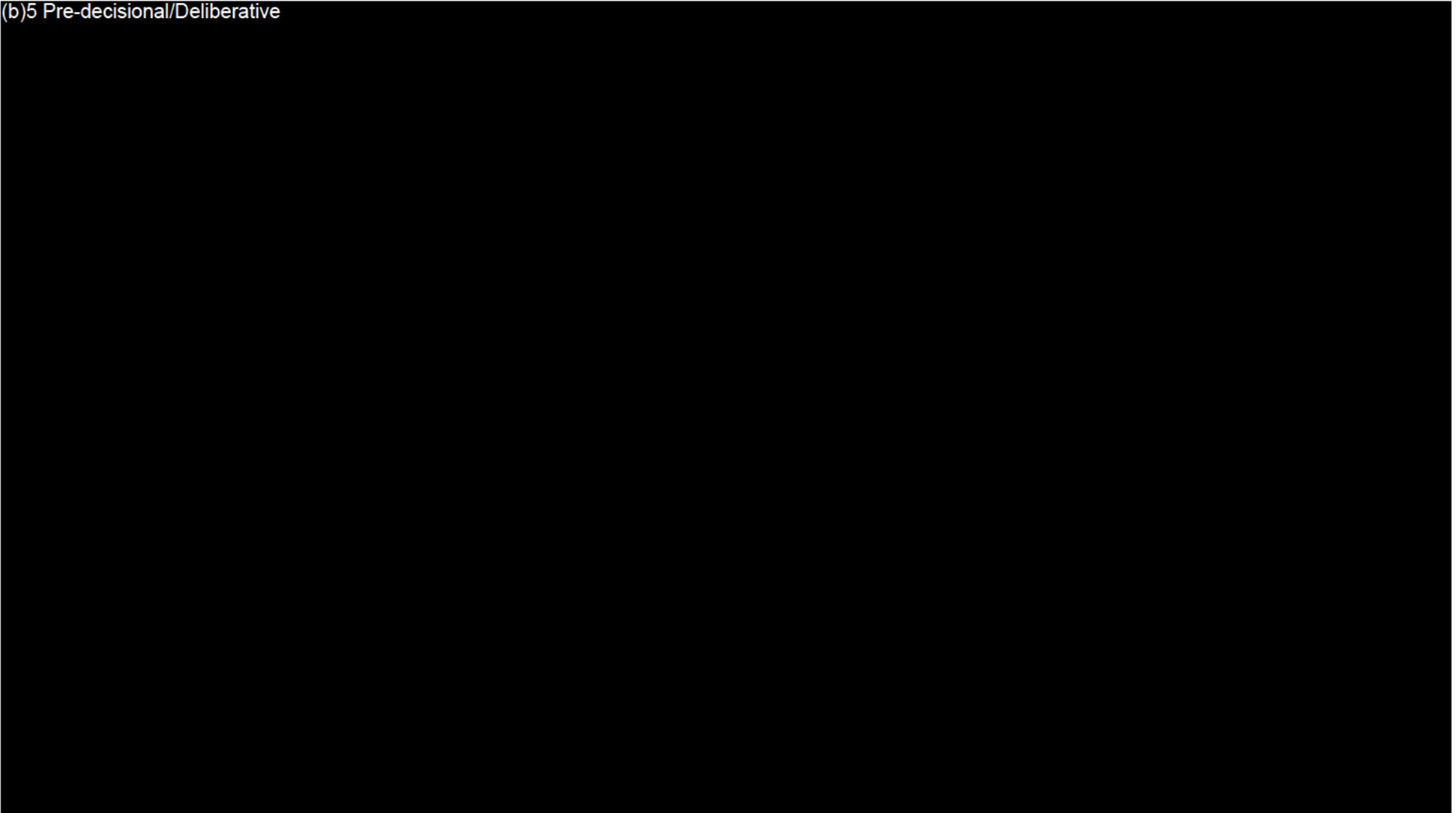
(b)5 Pre-decisional/Deliberative



- ADF development underway
- Timeline such that decision is requested some time before May 1

# CF-LOMO (Cont.)

(b)5 Pre-decisional/Deliberative



# PTSA Reform

- Decision has been communicated. Customer reaction has been very low-key.
- Diversified – Goal is to clarify the situation prior to the start of the cluster study.
- We made a decision to extend the composite POD flexibility for two months to better support transfer/redirect opportunities.

# NOS Reform Update

- Public customer meeting held on March 20, describing:
  - NOS Reform decision from January ASF
    - Key refinements to the PTSA and commercial expansion process
  - Preparatory process for the upcoming Cluster Study
    - Intend to commence study in September 2013
    - May 31 deadline for customers to submit eligible TSRs for inclusion in study
    - Intend to offer Cluster Study Agreements mid-July
- Relatively low customer turnout for the meeting
  - Most comments focused on the inability of some customers (developers) to provide the location of the load that will be served, which could limit the gen developer market
  - Certain stakeholders stressed that the entry requirements for the 2013 cluster study are too low to yield effective results
    - This is due to the requirement to use *pro forma* expansion process for the upcoming study
    - Should be mitigated for 2014 Cluster Study and beyond
- Ongoing:

(b)5 Pre-decisional/Deliberative



## **2008 NOS Projects - Monthly Status Report – April 2013**

### **Big Eddy-Knight - West of McNary Reinforcement Group 2:**

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

#### **Schedule**

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

#### **Budget**

- Total Project costs (Direct): \$180 million
- Actual costs to date (Direct as of 4/12/13): \$141 million

#### **Activities:**

##### **Last 30 days**

- Wilson CC is demobilized approximately until June 1, 2013.
- Meetings between the BPA cultural resource staff and consulting parties occurred to discuss the adverse effect of the TCP site.
- Negotiating with National Parks visual impact to the Lewis & Clark Trail.
- KEC prepared documentation in response to the consulting parties assessment of the Big Eddy-Knight determination of the effects for Sk'in Cultural District.
- The design for the new fiber route (*Knight-Wautoma*) is in-progress.
- Conducted lessons learned session for Knight Substation post construction.
- Rescheduled key outage dates for the river crossing to reflect the current construction schedule.
- Finalized easement with DNR.

##### **Next 30 days**

- Prepare documents for the solicitation of the last 14 miles of the transmission .
- Continue to obtain easement rights from Klickitat County.
- Continue cultural surveys of the last 14 miles to accessible properties.
- Monitor the progress of the cultural resource tasks. Apply mitigation strategies if BPA enters into conflict resolution (i.e. terminate WCC if resolution is not met by mid-May).
- Site preparation to begin for the installation of the Wautoma shunt reactor.
- Complete site restoration at tower 12/1.
- Finalize road alignment in mile 15.

## **2008 NOS Projects - Monthly Status Report – April 2013 (Cont.)**

### **Central Ferry-Lower Monumental**

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Theresa Berry

#### **Schedule**

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2013 Fall – Energization (project timeline currently under senior management review)

#### **Budget**

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (Direct as of 4/12/13) \$19.6 million

#### **Activities:**

##### **Last 30 days**

- Construction work for LOMO Control House expansion work is complete.
- 1/3 of the conductor has arrived.
- Transmission line right-of-way acquisition in progress.
- Deadline missed for 2014 energization.

##### **Next 30 days**

- Transmission line right-of-way acquisition in progress.

## **2008 NOS Projects - Monthly Status Report April 2013 (Cont.)**

### **I-5 Corridor Reinforcement**

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

#### **Schedule**

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25<sup>th</sup> – Close of formal comment period
- 2014 - Final Environmental Impact Statement (EIS) (New Date)
- 2014 - Record of Decision (New Date)
- Spring 2018 - Energization

#### **Budget**

- Total Project costs (Direct): \$459 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (Direct as of 4/12/13): \$31.2 million

#### **Activities:**

##### **Last 30 days**

- Team is compiling and categorizing 700 communications received during the comment period.
- Team is working with the Port of Portland to set up geotechnical investigation at Troutdale.
- Released property values study that was just published.
- Started to work more closely with affected utilities, PAC, PGE, and Cowlitz PUD on line relocations.

##### **Next 30 days**

- Team will finish compiling and categorizing comments.
- Team will review comments on the DEIS.
- Will begin considering requests by land owners for on site meetings and to adjust preferred route tower and road locations.
- Will negotiate and renew agreements with large land owners.
- Will finalize plans for requesting permission to enter property from individual landowners that includes \$1,000 compensation for 2 years of access.

*Dial 360-418-8008 to be connected to the phone bridge*

**TMC Agenda ♦ June 26, 2013 ♦ DOB-1 ♦ 1:00 pm – 5:00 pm**

ADMINISTRATIVE						
1:00	10	Non-responsive				
1:10	20					
1:30	20	<ul style="list-style-type: none"> <li>▪ <b>NOS Project Update</b> <ul style="list-style-type: none"> <li>• Big Eddy-Knight</li> <li>• I-5</li> <li>• Central Ferry-Lower Monumental</li> </ul> </li> </ul>	T.13 T. 14	Internal Controls & Asset Management	Lahti, Scott, Jaramillo, Korsness	<b>Inform:</b> Update status of transmission expansion program
1:50	15	Non-responsive				
INTERNAL PE						
2:05	40					
2:45	15					
STAKEHOLD						
3:00	30					
3:30	10					
	10					
	30	<ul style="list-style-type: none"> <li>▪ Legacy NOS: Central Ferry-LoMo Status, M2W considerations</li> </ul>	T.S1	Policy & Regional Actions	Leathley, Nichols-Kinas, Berry	<b>Inform:</b> Summary of recent project updates
	20	<ul style="list-style-type: none"> <li>▪ 2013 NOS Update</li> </ul>	T.S1	Policy & Regional Actions	Leathley, Jones	<b>Discuss:</b> Implementation Update
4:40	10	Non-responsive				
4:50	10					

# April 2013 TMC Follow-Up Items

	Follow Up Items	Responsibility	Issue Addressed
1	Non-responsive [Redacted]		
2	Big Eddy-Knight (b)5 Pre-decisional/Deliberative [Redacted]	Jaramillo, Scott, Leathley, Nichols- Kinas, Fredrickson	<b>In Progress</b> – Report out at June TMC
3	Consulting Party Strategy (Big Eddy-Knight) (b)5 Pre-decisional/Deliberative [Redacted]	Jaramillo, Berry, Scott, Grimm	<b>In Progress</b>
4	Central Ferry-Lower Monumental (b)5 Pre-decisional/Deliberative [Redacted]	Leathley, King, Fitzsimmons	<b>Completed</b> – TAC signed and letter delivered to Puget with cc to PGE on 5/14

# April 2013 TMC Follow Up Items (continued)

	Follow Up Items	Responsibility	Issue Addressed
5	Non-responsive		
6			
7			
8			
9	PTSA & NOS Reform (b)5 Pre-decisional/Deliberative	Leathley, Jones, Nichols- Kinas	In Progress - TBD

## 2008 NOS Projects - Monthly Status Report – June 2013

### Big Eddy-Knight - West of McNary Reinforcement Group 2:

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

#### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

#### Budget

- Total Project costs (Direct): \$180 million
- Actual costs to date (Direct as of 6/13/13): \$144.6 million

#### Activities:

##### Last 30 days

- Letter to the NPS regarding BPA's position on eligibility has been sent out.
- KPUD has reviewed the easement document and concluded the FMV is feasible.
- Cultural surveys of the last 14 miles continued
- Installation of the Wautoma shunt reactor continued.
- Key outage dates for the river crossing and final termination of the line to reflect the current construction effort has been rescheduled.
- Road re-alignment in mile 15 is complete.
- Solicitation construction package for the river crossing and last 14 miles is complete, if needed.
- Fiber design (Knight-Wautoma) is complete and solicitation package is ready for RFO.
- DOJ's three day visit at BPA occurred in early May (*info gathering*).

##### Next 30 days

- Execute the KPUD easement documents and obtain final land rights.
- Completed all cultural surveys on the last 14 miles and waiting for a draft report review.
- Await National Parks Services response to BPA's letter of eligibility.
- Finish below grade work and start on above grade construction relative to the Wautoma shunt reactor installation.
- Conduct a construction and solicitation strategy meeting for the last 14 miles and river crossing effort.
- Solicit security upgrade contract release for Knight Substation (*NERC/CIP requirements*).
- Complete data PMU installation at Knight Substation.
- Continue land rights review relative to the Knight-Wautoma fiber.

# 2008 NOS Projects - Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Theresa Berry

## ● Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2013 Fall – Energization (project timeline currently under senior management review)

## ● Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (Direct as of 6/13/13) \$19.7 million

## Activities:

### Last 30 days

- 1/3 of the conductor has arrived.
- Transmission line right-of-way acquisition in progress.
- Deadline missed for 2014 energization.

### Next 30 days

- Transmission line right-of-way acquisition in progress.
- Outreach to tribal entities and SHPO in the month of June.

# 2008 NOS Projects - I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

**Schedule**

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- 2014 - Final Environmental Impact Statement (EIS) (New Date)
- 2014 - Record of Decision (New Date)
- Spring 2018 - Energization

**Budget**

- Total Project costs (Direct): \$459 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (Direct as of 6/13/13): \$32.2 million

**Activities:**

**Last 30 days**

- Team reviewing comments on DEIS.
- Team is working with large landowners to secure access and resources to jointly review line and road locations.
- Working more closely with affected utilities, PAC, PGE, and Cowlitz PUD on line relocations.
- PM and siting team are meeting on site with landowners.

**Next 30 days**

- Team will draft responses to comments on DEIS.
- PM and siting team will request to meet with land owners to consider adjustments to preferred route tower and road locations.
- Team will continue to work with large land owners. Weyerhaeuser buying Longview Timber which will simplify our process. Weyerhaeuser and DNR are biggest land owners.
- Will mail requests for permission to enter property to individual landowners that includes \$1,000 compensation for 2 years of access.

# Legacy NOS

- Central Ferry-Lower Monumental
  - Public announcement 6/5/13 announcing BPA's intent to construct if PGE-Puget deal proceeds.
- Northern Intertie

(b)5 Pre-decisional/Deliberative

- All PTSAs supporting Northern Intertie West expansion were terminated.

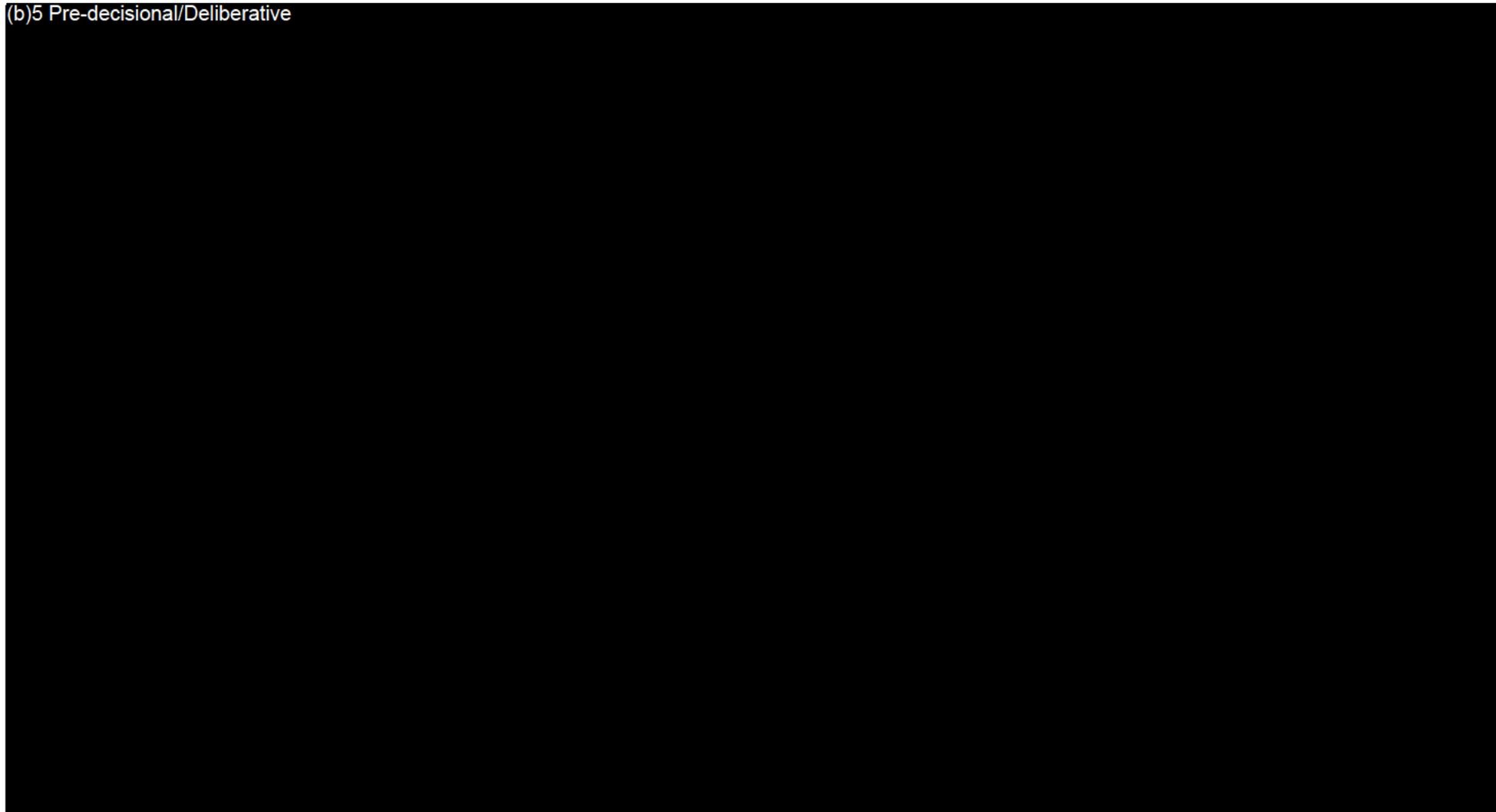
- Montana to Washington
  - Public announcement 6/13/13 on NEPA moving forward
- Big Eddy-Knight
  - Identifying revenue risks due to project delays.

# PTSA Evolution Placeholder



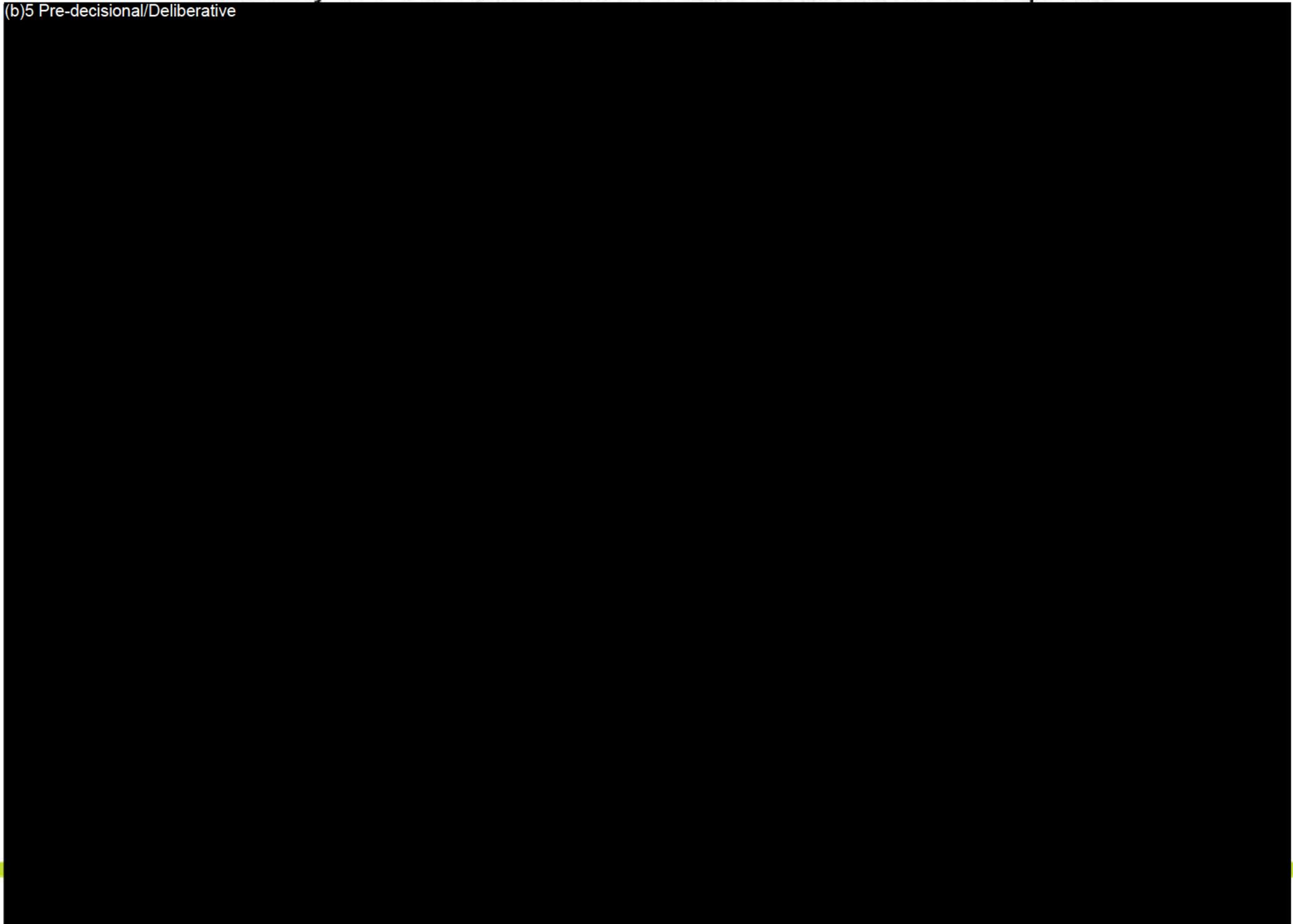
# Existing PTSA Risk Assessment

(b)5 Pre-decisional/Deliberative



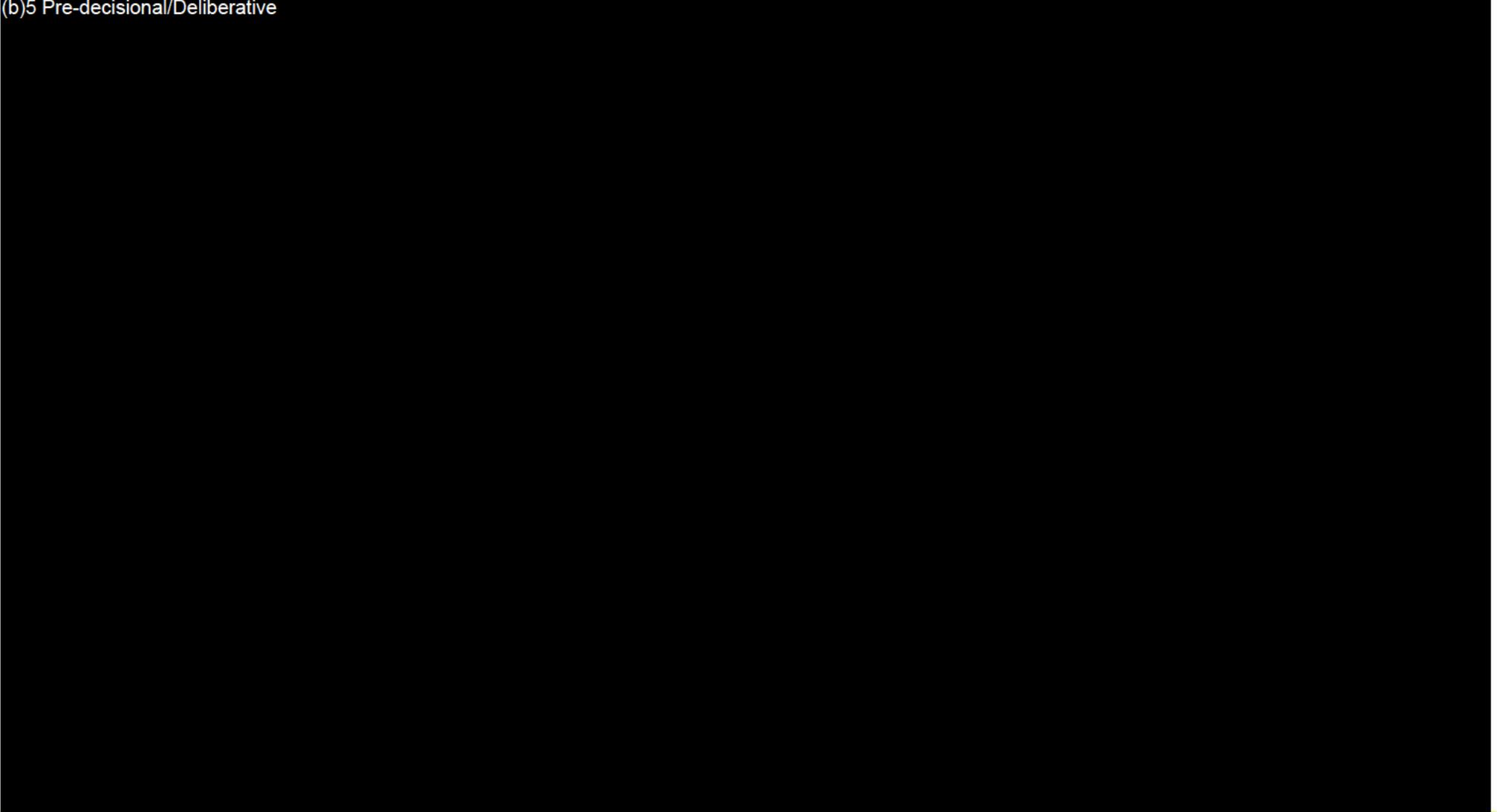
# Summary of PTSA and Contract Risk Assessment All Requests

(b)5 Pre-decisional/Deliberative



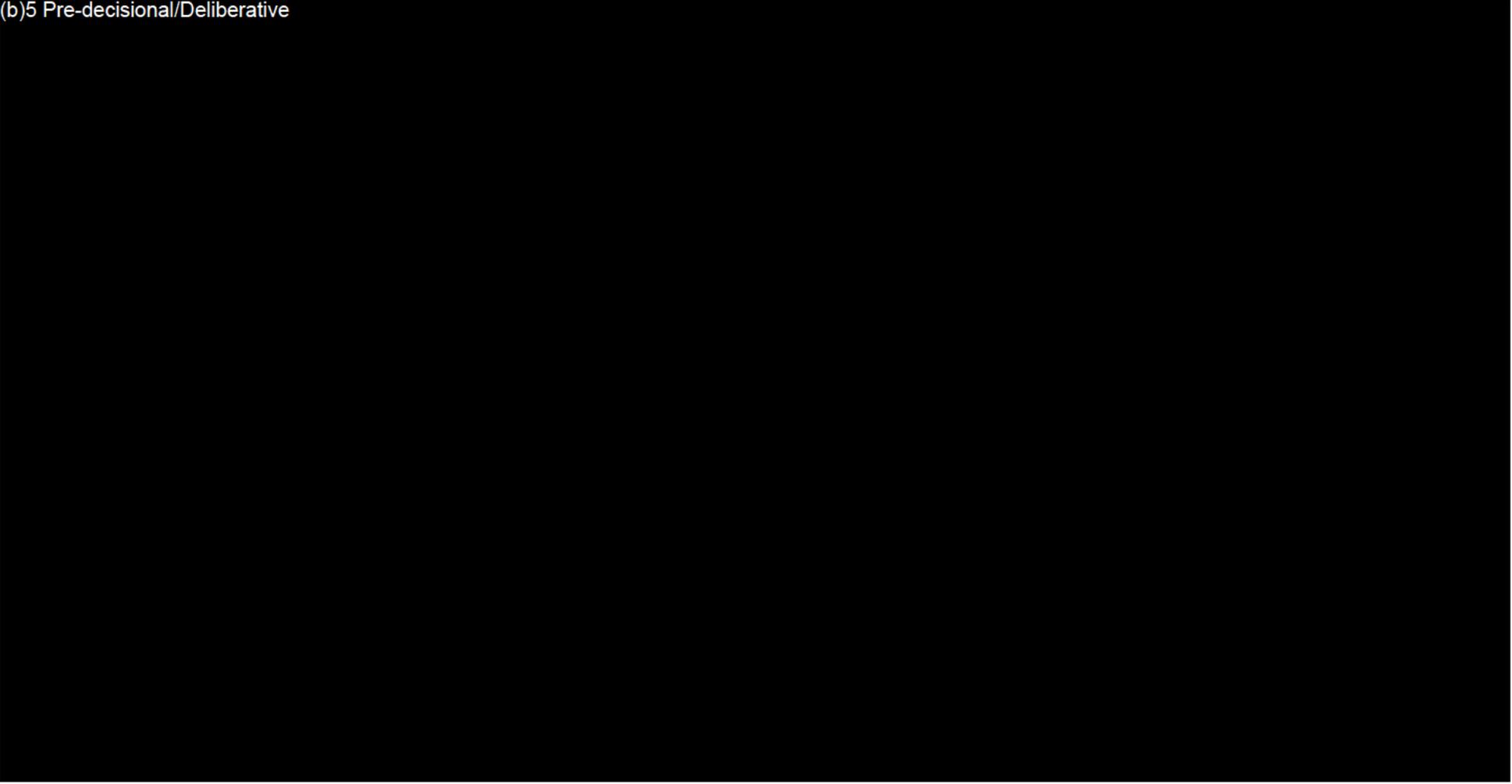
# Summary of PTSA Risk

(b)5 Pre-decisional/Deliberative



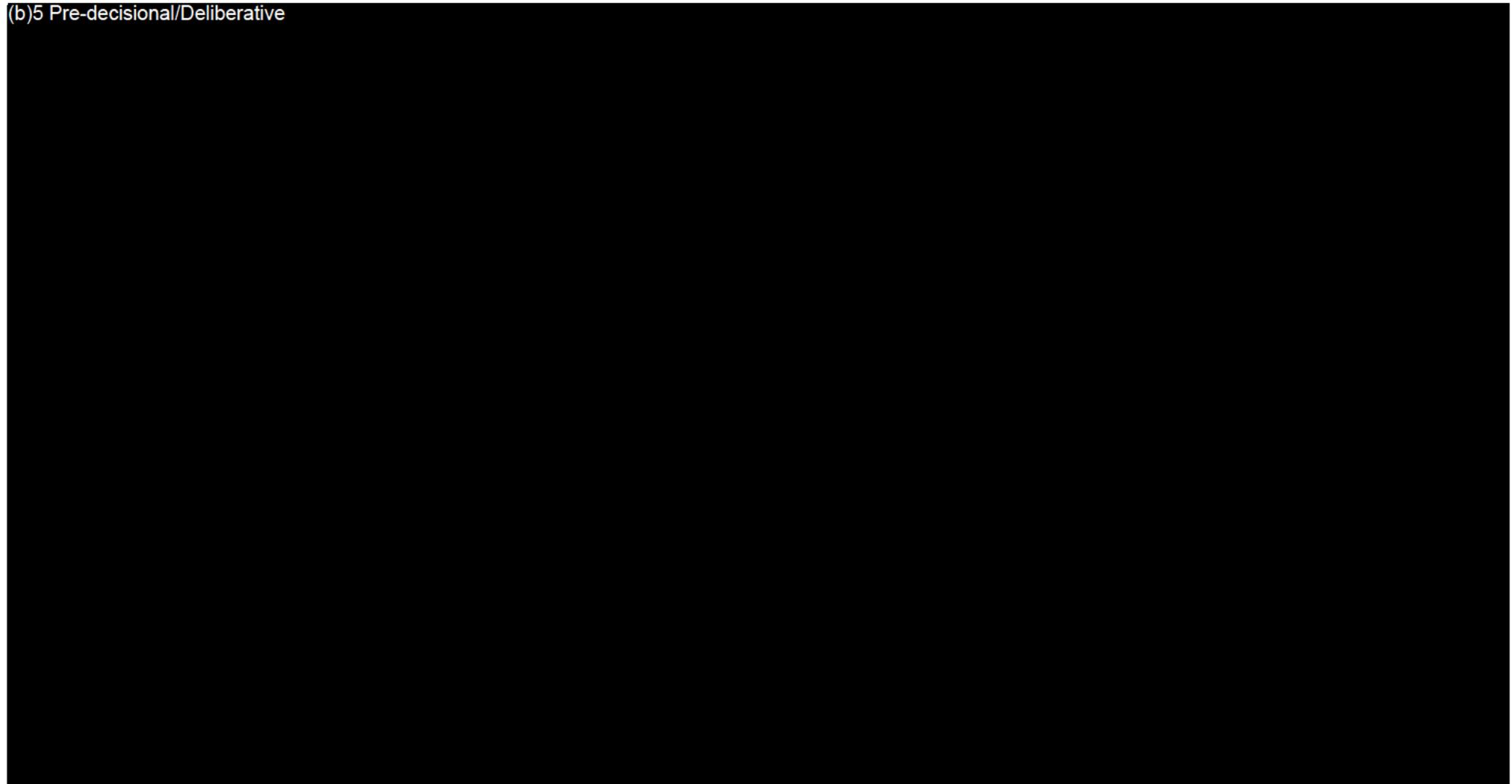
# 2013 Network Open Season: Overview of Eligible TSRs

(b)5 Pre-decisional/Deliberative



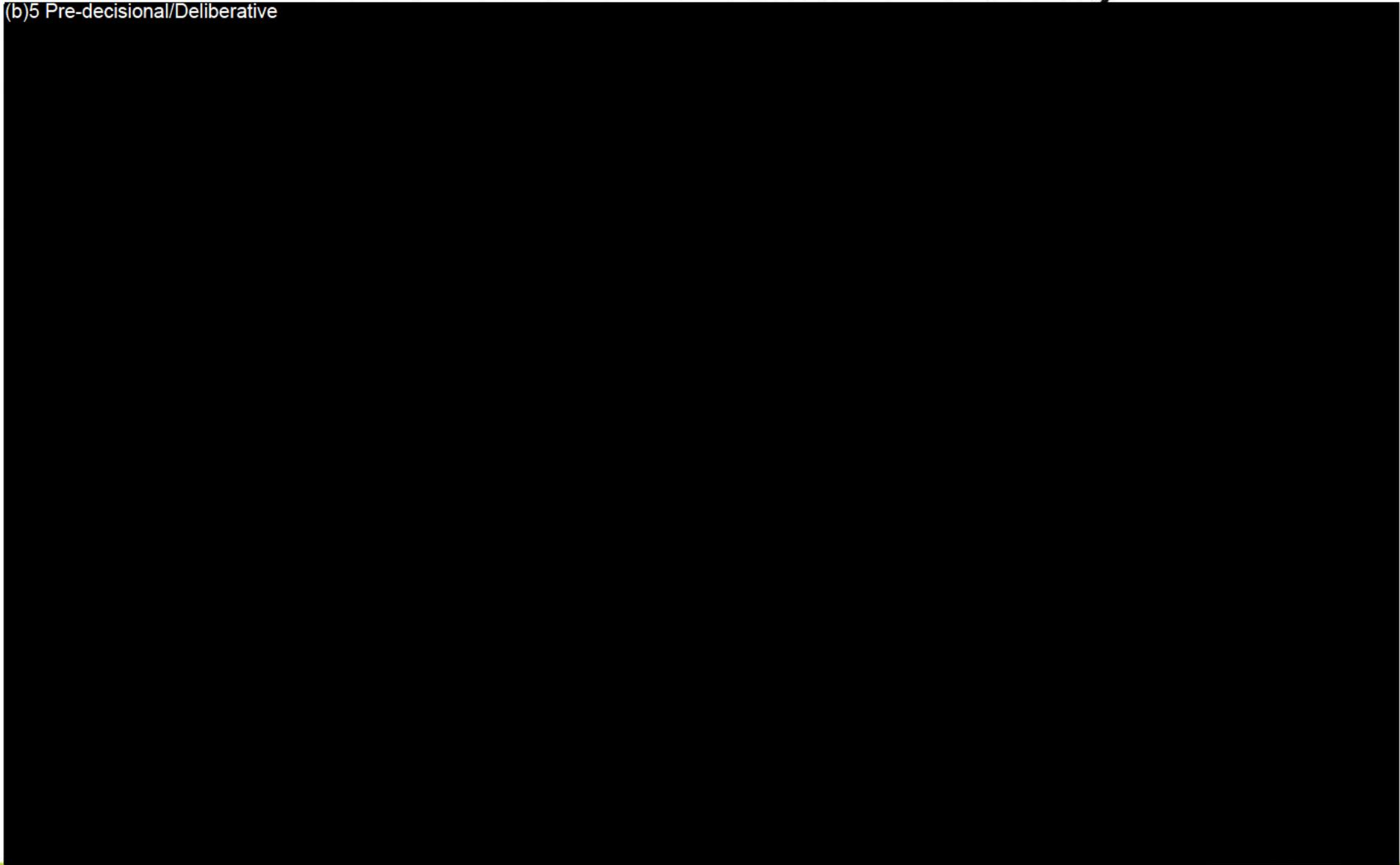
# Overview of 2013 Data Exhibit Validation

(b)5 Pre-decisional/Deliberative



# Summary of Eligible TSRs for 2013 NOS Cluster Study

(b)5 Pre-decisional/Deliberative



# 2013 NOS Next Steps

- July 1 – Begin tender of Cluster Study agreements
  - Customers will be required to fund their pro rata share of the estimated Cluster Study costs which have been set at \$600,000 (see chart for customer breakdown)
- July 15 – Internal deadline for data exhibit validation
  - If data exhibits are unable to be validated by this time, the TSR will not be offered a cluster study agreement and will be moved to DECLINED.
- July 16 – Final Cluster Study agreements tendered
- July – Customer meeting to review assumptions and scenarios
  - TPP staff has held multiple presentations to regional planners through Columbia Grid
- August – Conduct long-term firm queue restack based on returned Cluster Study agreements
  - Additional authorizations may result
- September 1 – Begin Cluster Study

## 2008 NOS Projects:

### Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

#### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

#### Budget

- Total Project costs (Direct): \$180 million
- Actual costs to date (**Direct as of 7/22/13**): \$145.9 million

#### Activities:

##### Last 30 days

- Received comments from consulting parties including Oregon and Washington SHPO, U.S. Forest Services and National Parks Service regarding BPA's letter of eligibility.
- Secured easement rights with Klickitat County.
- Completed all cultural surveys on the last 14 miles.
- KEC continues to conduct cultural surveys associated with the 72 mile fiber installation on the Knight-Wautoma part of the project.
- Negotiated with existing EPC contractor relative to the cost of finishing the last 14 miles. Wilson will move forward with the completion of the river crossing and last 14 miles of construction.
- Below grade work of the Wautoma reactor installation continues and is on schedule.
- Data PMU installation at Knight Substation is complete.

##### Next 30 days

- Send the National Keeper BPA's report of non-eligibility and supporting material for a determination.
- Await response from the National Keeper on determination.
- Send out cultural survey report for the last 14 miles to the consulting parties.
- Solicit security upgrade contract release for Knight Substation (*NERC/CIP requirements*).
- Continue land rights review relative to the Knight-Wautoma fiber.

# 2008 NOS Projects:

## Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Theresa Berry

### ● Schedule

- 2009 Feb. - Project approved and launched
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- 2013 Fall – Energization (project timeline currently under senior management review)

### ● Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 7/22/13**) \$19.7 million

### Activities:

#### Last 30 days

- 1/3 of the conductor has arrived.
- Transmission line right-of-way acquisition in progress.
- Outreach to tribal entities and SHPO complete.
- Biologic Surveys complete.
- Deadline missed for 2014 energization.

#### Next 30 days

- Transmission line right-of-way acquisition in progress.
- Substation design to re-start as soon as purchase and sale agreement is finalized to be ready for April/May 2014 construction start.
- Begin work on Supplement Analysis.
- Begin Cultural Surveys

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- 2014 - Final Environmental Impact Statement (EIS) (New Date)
- 2014 - Record of Decision (New Date)
- Spring 2018 - Energization

### Budget

- Total Project costs (Direct): \$459 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (**Direct as of 7/22/13**): \$33 million

### Activities:

#### Last 30 days

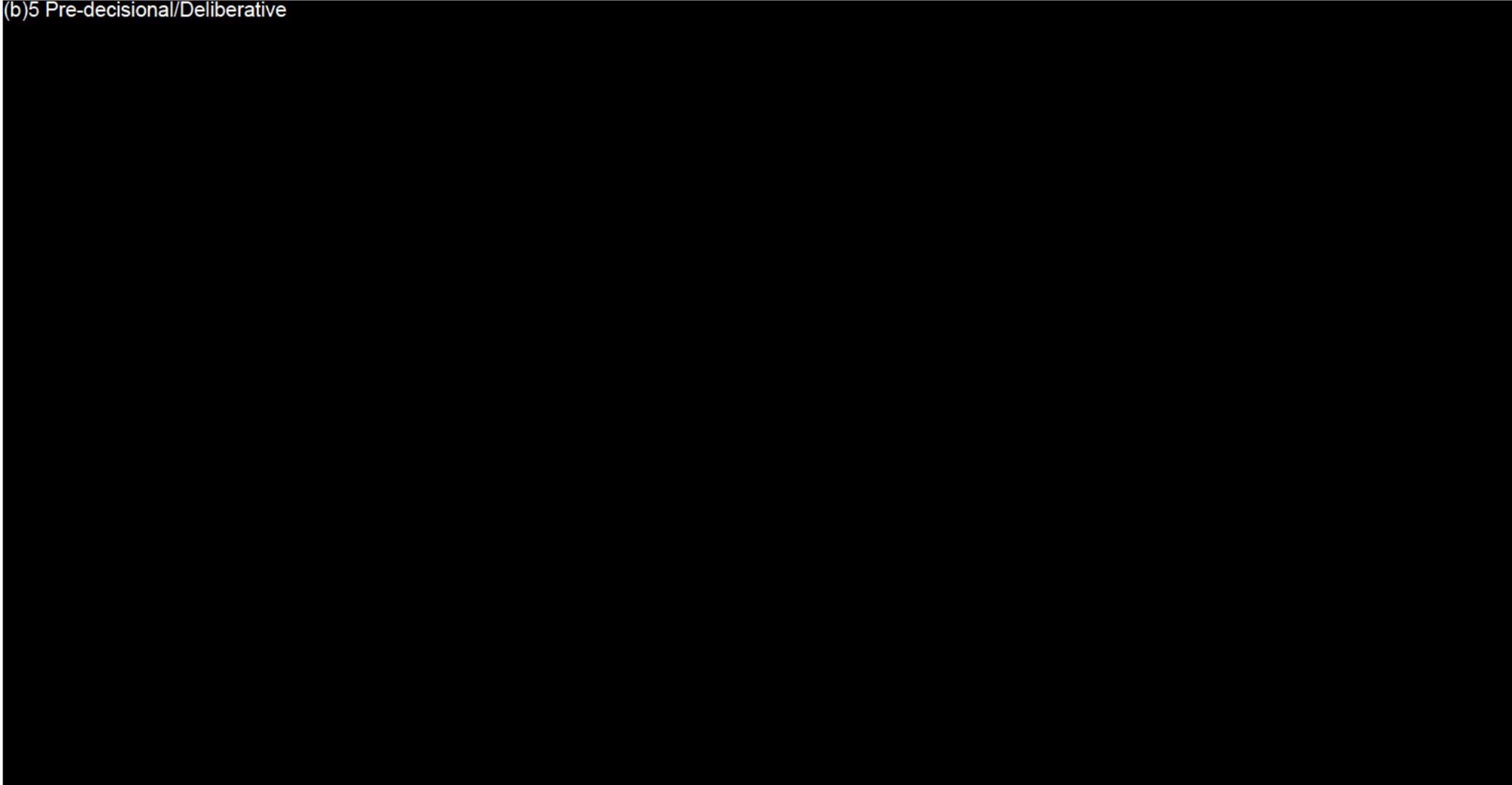
- Team reviewing comments on DEIS.
- Team is working with large landowners to secure access and resources to jointly review line and road locations.
- Working more closely with affected utilities, PAC, PGE, and Cowlitz PUD on line relocations.
- PM and siting team are meeting on site with landowners.
- We have mailed out Permission to Enter Property (PEP) requests to all affected land owners along with a compensation offer of \$1,000 for 2 years access.

#### Next 30 days

- Team will draft responses to comments on DEIS.
- PM and siting team will request to meet with land owners to consider adjustments to preferred route tower and road locations.
- Team will continue to work with large land owners. Weyerhaeuser buying Longview Timber which will simplify our process. Weyerhaeuser and DNR are biggest land owners.
- Team will follow up with non-responsive landowners concerning PEP requests.

# 2013 Network Open Season: Overview of Eligible TSRs

(b)5 Pre-decisional/Deliberative



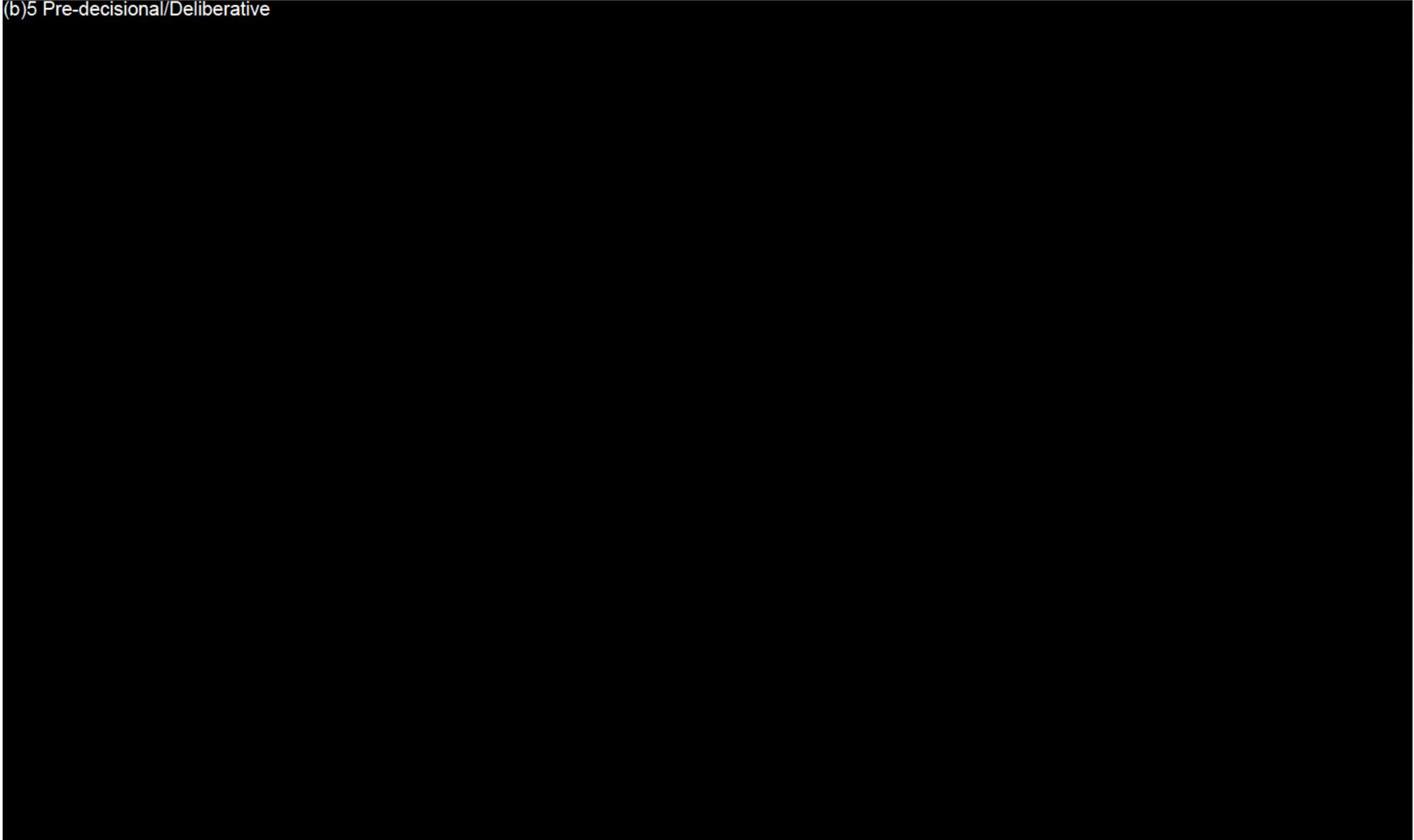
# Data Exhibit Deficiencies

(b)5 Pre-decisional/Deliberative



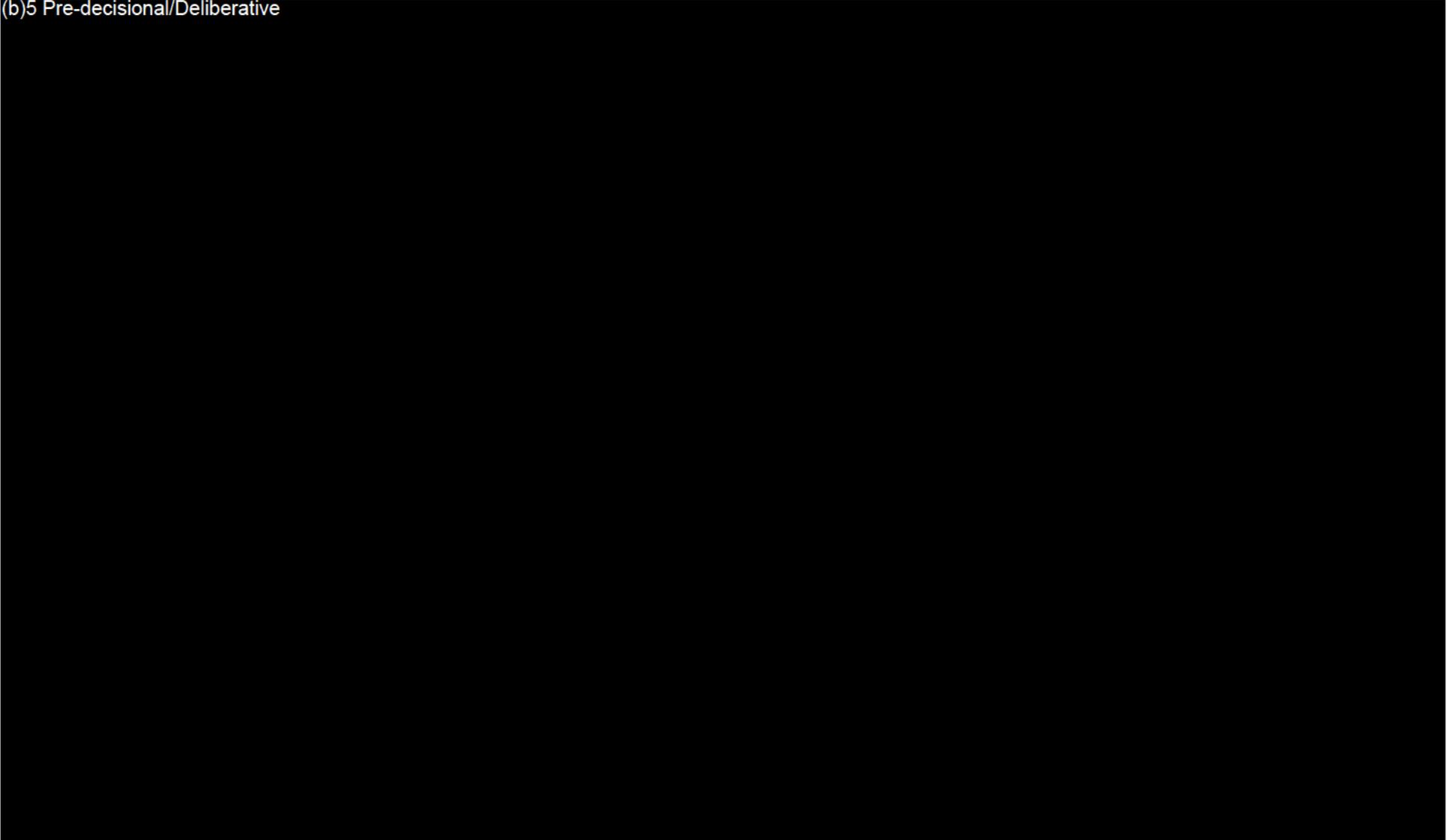
# Data Exhibit Deficiencies (cont.)

(b)5 Pre-decisional/Deliberative



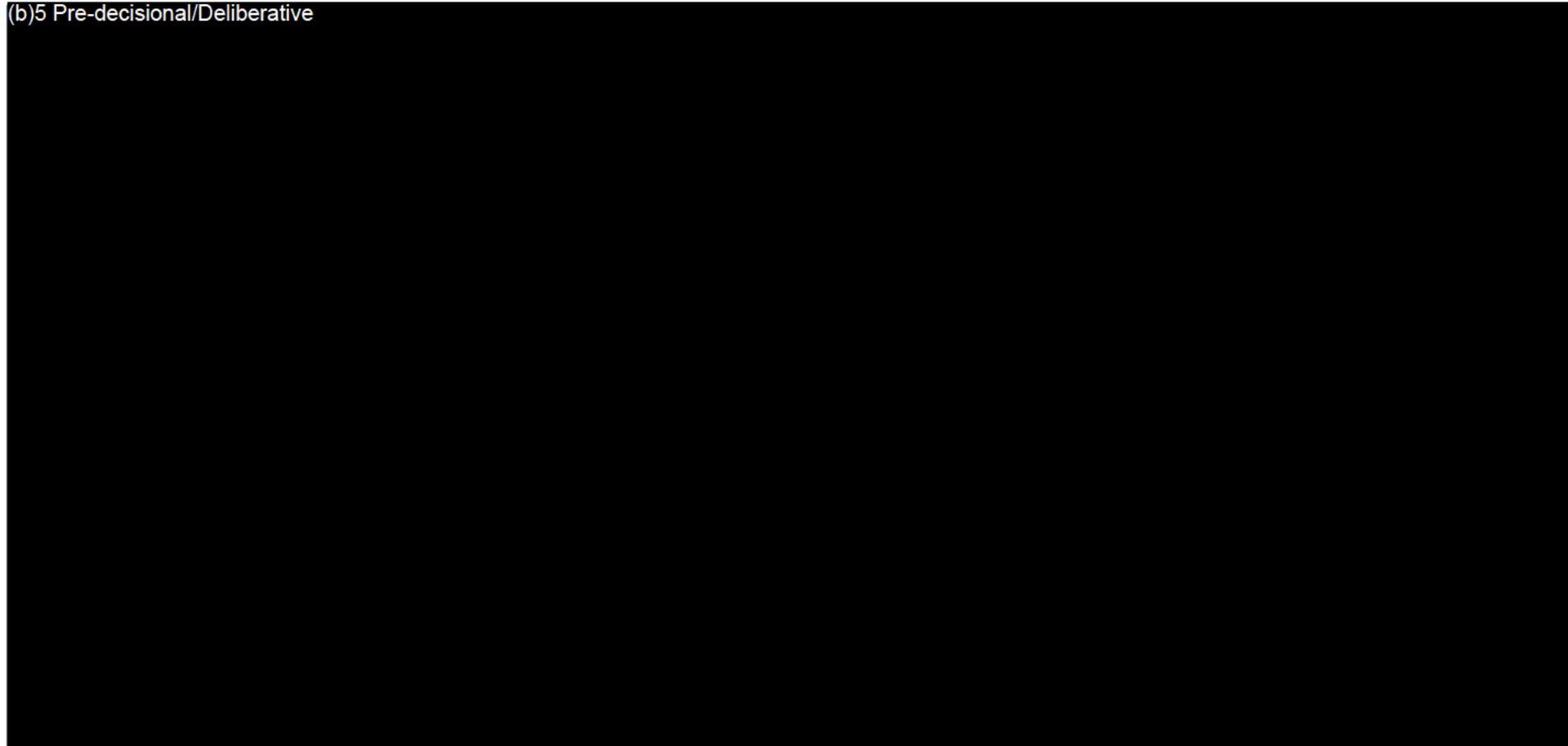
# TSR Flowability Issue

(b)5 Pre-decisional/Deliberative



# 2013 NOS Implementation Update

(b)5 Pre-decisional/Deliberative



- Staff has scheduled an August 6 customer meeting to discuss this issue further

*Dial 360-418-8008 to be connected to the phone bridge*

**TMC Agenda ♦ August 28, 2013 ♦ DOB-1 ♦ 1:00 pm – 5:00 pm**

ADMINISTRATIVE						
1:00	10	Non-responsive				
1:10	15					
1:25	15	<ul style="list-style-type: none"> <li>▪ <b>NOS Project Update</b> <ul style="list-style-type: none"> <li>• Big Eddy-Knight</li> <li>• I-5</li> <li>• Central Ferry-Lower Monumental</li> </ul> </li> </ul>	T.13 T.14	Internal Controls & Asset Management	Becker, Scott, Jaramillo, Korsness	<b>Inform:</b> Update status of transmission expansion program
1:40	15	Non-responsive				
FINANCIAL P						
1:55	15					
INTERNAL PE						
2:10	20					
2:30	15					
2:45	15					
STAKEHOLD						
3:00	20					
3:20	20					
	30	<ul style="list-style-type: none"> <li>▪ Legacy NOS: Central Ferry-LoMo Status, M2W considerations</li> </ul>	T.S1	Policy & Regional Actions	Ehli, Nichols-Kinas, Berry	<b>Discuss:</b> Updates on CF-Lomo and M2W
	20	<ul style="list-style-type: none"> <li>▪ PTSA Reform &amp; NOS Reform Update</li> </ul>	T.S1	Policy & Regional Actions	Ehli, Nichols-Kinas, Jones	<b>Discuss:</b> Implementation Update, Diversified Update, NOS meeting report out
4:30	10	Non-responsive				
4:40	15					

CONCLUSION OF August 2013 TMC

## 2008 NOS Projects:

### Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

#### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

#### Budget

- Total Project costs (Direct): \$181 million
- Actual costs to date (**Direct as of 8/16/13**): \$146.4 million

#### Activities:

##### Last 30 days

- Sent the National Keeper BPA's report of non-eligibility and supporting material for a determination.
- Sent out consultation letter for cultural surveys on the last 14 miles.
- KEC continues to conduct cultural surveys associated with the 72 mile fiber installation on the Knight-Wautoma part of the project.
- Negotiated with existing EPC contractor relative to the cost of finishing the last 14 miles. Wilson will move forward with the completion of the river crossing and last 14 miles of construction.
- Below grade work of the Wautoma reactor installation continues and is on schedule.
- Data PMU installation at Knight Substation is complete.

##### Next 30 days

- Await response from the National Keeper on determination.
- Complete consultation for the last 14 miles.
- Update easements for road alignment changes in mile 15.
- Solicit security upgrade contract release for Knight Substation (*NERC/CIP requirements*).
- Continue land rights review relative to the Knight-Wautoma fiber.
  - Cultural surveys are scheduled to be complete by the end of the year.
  - Four new permits are required and are scheduled to be acquired by the end of February

# 2008 NOS Projects:

## Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Theresa Berry

### Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2013 Fall – Energization (project timeline currently under senior management review)

### Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 8/16/13**) \$19.7 million

### Activities:

#### Last 30 days

- 1/3 of the conductor has arrived.
- Transmission line right-of-way acquisition in progress.
- Outreach to tribal entities and SHPO complete.
- Biologic Surveys complete.
- Deadline missed for 2014 energization.
- Substation Design Team has been deployed to refresh or update designs at five Substations under this project.

#### Next 30 days

- Transmission line right-of-way acquisition in progress.
- Begin work on Supplement Analysis.
- Begin Cultural Surveys
- Work with Corp of Engineers to obtain permit to use their gravel pit near LOMO substation.
- Continue with Substation Design.

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- 2014 - Final Environmental Impact Statement (EIS) (New Date)
- 2014 - Record of Decision (New Date)
- Spring 2018 - Energization

### Budget

- Total Project costs (Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (**Direct as of 8/16/13**): \$33.3 million

### Activities:

#### Last 30 days

- Team reviewing comments on Draft EIS and drafting responses.
- PM and siting team working with land owners to consider adjustments to preferred route tower and road locations.
- Team continues to work to secure agreements with large land owners.
- Weyerhaeuser and DNR are biggest land owners, also PAC and Sierra Pacific.
- Realty Team securing Permission to Enter Properties (PEP's) and will follow up with non-responsive landowners.
- PAC has signed access agreement.

#### Next 30 days

- Team reviewing comments on Draft EIS and drafting responses.
- PM and siting team working with land owners to consider adjustments to preferred route tower and road locations.
- Team continues to work to secure agreements with large land owners.
- Weyerhaeuser and DNR are biggest land owners, also PAC and Sierra Pacific.
- Realty Team securing Permission to Enter Properties (PEP's) and will follow up with non-responsive landowners.

Dial 360-418-8008 to be connected to the phone bridge

**TMC Agenda ♦ September 25, 2013 ♦ DOB-1 ♦ 1:00 pm – 5:00 pm**

ADMINISTRATIVE						
1:00	10	Non-responsive				
1:10	30					
1:40	20	<ul style="list-style-type: none"> <li>▪ NOS Project Update                             <ul style="list-style-type: none"> <li>• Big Eddy-Knight</li> <li>• I-5</li> <li>• Central Ferry-Lower Monumental</li> </ul> </li> </ul>	T.13 T. 14	Internal Controls & Asset Management	Scott, Jaramillo, Korsness, Berry	Inform: Update status of transmission expansion program
2:00	15	Non-responsive				
INTERNAL P						
2:15	30					
2:45	15					
STAKEHOLD						
3:00	45					
3:45	20					
	20	<ul style="list-style-type: none"> <li>▪ 2013 NOS Update</li> </ul>	T.S1	Policy & Regional Actions	Leathley, Jones	Discuss: Implementation Update, Diversified Update, NOS meeting report out
4:25	10	Non-responsive				
4:35	5					
CONCLUSION OF September 2013 TMC						

## 2008 NOS Projects:

# Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

### Budget

- Total Project costs (Direct): \$186 million
- Actual costs to date (**Direct as of 9/13/13**): \$146.9 million

### Activities:

#### Last 30 days

- Awaiting National Keeper's response of BPA's report of non-eligibility and supporting material.
- "Stop Work" on BEK issued to Wilson due to recent fatality.
- KEC continues to conduct cultural surveys associated with the 72 mile fiber installation on the Knight-Wautoma part of the project.
- Below grade work of the Wautoma reactor installation complete and above grade work has commence.
- Initiated renewal of all existing permits.
- Deliberation with condemned land owners have initiated.

#### Next 30 days

- Await **FORMAL** response letter from the National Keeper on determination.
- Complete consultation for the last 14 miles and prepare to move forward with dispute resolution in accordance with the Programmatic Agreement.
- Update easements for road alignment changes in mile 15.
- Solicit security upgrade contract release for Knight Substation (*NERC/CIP requirements*).
- Make a determination on the state of Wilson's CC construction contract.

# 2008 NOS Projects:

## Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Theresa Berry

### ● Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2013 Fall – Energization (project timeline currently under senior management review)

### ● Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 9/13/13**) \$19.8 million

### Activities:

#### Last 30 days

- Transmission line right-of-way acquisition in progress.
- Biologic and Cultural Surveys complete.
- Substation Design Team has been deployed to refresh or update designs at five Substations under this project.

#### Next 30 days

- Transmission line right-of-way acquisition in progress.
- Begin work on Supplement Analysis.
- Update Construction Data Book for RFO for CF-LoMo Line
- Work with Corp of Engineers to obtain permit to use their gravel pit near LOMO substation.
- Continue with Substation Design.

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- 2014 - Final Environmental Impact Statement (EIS) (New Date)
- 2014 - Record of Decision (New Date)
- Spring 2018 - Energization

### Budget

- Total Project costs (Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (**Direct as of 8/16/13**): \$33.3 million

### Activities:

#### Last 30 days

- Team reviewing comments on Draft EIS and drafting responses.
- PM and siting team working with land owners to consider adjustments to preferred route tower and road locations.
- Team continues to work to secure agreements with large land owners.
- Weyerhaeuser and DNR are biggest land owners, also PAC and Sierra Pacific.
- Realty Team securing Permission to Enter Properties (PEP's) and will follow up with non-responsive landowners.
- PAC , Weyerhaeuser, Longview Timber, DNR, Port of Portland, PGE, City of Camas, City of Washougal have now signed access agreements.

#### Next 30 days

- Team reviewing comments on Draft EIS and drafting responses.
- PM and siting team working with land owners to consider adjustments to preferred route tower and road locations.
- Team continues to work to secure agreements with large land owners.
- Weyerhaeuser and DNR are biggest land owners, also PAC and Sierra Pacific.
- Realty Team securing Permission to Enter Properties (PEP's) and will follow up with non-responsive landowners.

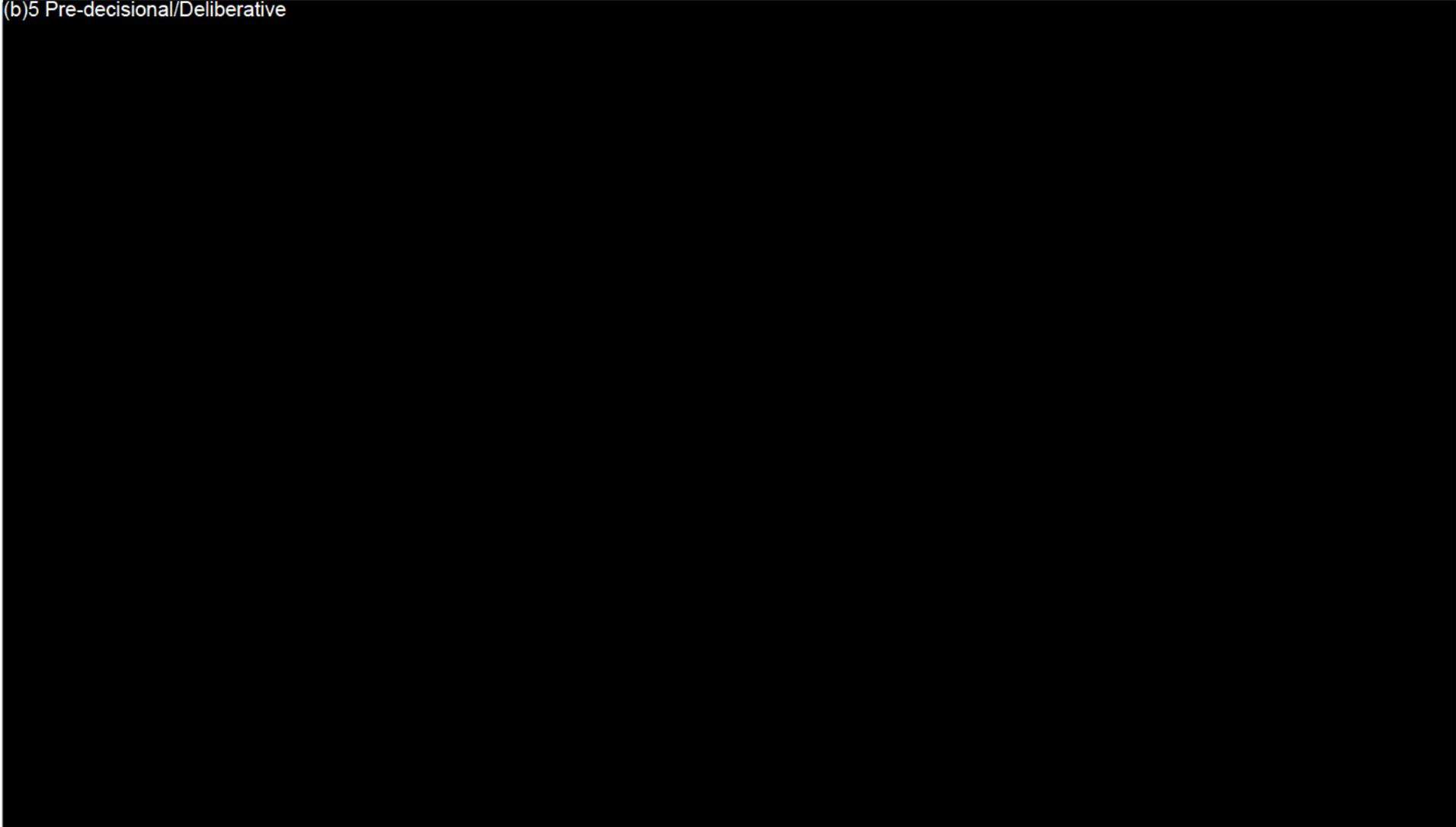
# Final Cluster Study Overview

	MW	Notes
<b>MW Originally Eligible for 2013 Cluster Study</b>	<b>7820</b>	
Reduction: No Data Exhibit Submitted	405	
Reduction: Failed Data Exhibit Validation	1450	
<b>Total MW Reduction Due to Data Exhibit Policies</b>	<b>1855</b>	24% of Originally Eligible
<b>MW Tendered Cluster Study Agreement</b>	<b>5965</b>	
Reduction: Elected not to Include TSRs in Study	2492	42% of MW Offered
<b>Total MW Attrition</b>	<b>4347</b>	
<b>Total MW In 2013 Cluster Study</b>	<b>3473</b>	

- BPA received 18 executed and funded CSAs for 3,473 MW
  - 18 Customers, 48 TSRs
  - 834 MW of NT (19 TSRs)
  - 2,101 MW of Original PTP (21 TSRs)
  - 538 MW of Redirected PTP (8 TSRs)

# Final Cluster Study Overview (continued)

(b)5 Pre-decisional/Deliberative



# Final Cluster Study Overview (continued)

(b)5 Pre-decisional/Deliberative



# 2013 NOS: PTSA Timing Decision

- The NOS team proposed to move the timing of the PTSA offer in the NOS process.
  - Previous PTSA offer point was prior to the commencement of the environmental review phase
  - Proposed to offer the PTSA following the environmental review and preliminary engineering phase, when BPA is ready to make a formal rate and construction decision
  - Presented at the August TMC
- As Customers and BPA management were supportive of the proposal, decision was made to implement this change
- Result is contract offers that are aligned with key decision points for both Customers and BPA
  - Phase I: Cluster Study Agreement
  - Phase II: Environmental Review and Engineering Agreement
  - Phase III: PTSA/Construction Agreement

Dial 360-418-8008 to be connected to the phone bridge

**TMC Agenda ♦ November 20, 2013 ♦ DOB-1 ♦ 1:00 pm – 5:00 pm**

ADMINISTRATIVE						
1:00	10	Non-responsive				
1:10	30					
1:40	20	<ul style="list-style-type: none"> <li>▪ NOS Project Update                             <ul style="list-style-type: none"> <li>• Big Eddy-Knight</li> <li>• I-5</li> <li>• Central Ferry-Lower Monumental</li> </ul> </li> </ul>	T.13 T. 14	Internal Controls & Asset Management	Scott, Jaramillo, Korsness, Berry	Inform: Update status of transmission expansion program
2:00	15	Non-responsive				
INTERNAL						
2:15	30					
2:45	15					
STAKEHOL						
3:00	45					
3:45	20					
	20	<ul style="list-style-type: none"> <li>▪ Legacy NOS Update: Big Eddy-Knight, Central Ferry-LoMo Status, M2W, NI East</li> </ul>	T.S1	Policy & Regional Actions	Leathley, Nichols-Kinas	Discuss: Updates on CF-Lomo and M2W
	20	<ul style="list-style-type: none"> <li>▪ 2013 NOS Update</li> </ul>	T.S1	Policy & Regional Actions	Leathley, Jones	Discuss: Implementation Update, Diversified Update, NOS meeting report out
4:45	10	Non-responsive				
4:55	5					
CONCLUSION OF November 2013 TMC						

# September 2013 TMC Follow-Up Items

	Follow Up Items	Responsibility	Issue Addressed
1	Update Big Eddy-Knight Budget to Red (b)5 Pre-decisional/Deliberative	Scott, Jaramillo	COMPLETE
2	Non-responsive		
3	Legacy NOS (b)5 Pre-decisional/Deliberative	Leathley, Nichols-Kinas, Fredrickson	COMPLETE – Report out at August TMC
4	2013 NOS: Powerex TSRs for 8/23 meeting with Powerex/BC Hydro (b)5 Pre-decisional/Deliberative	Leathley, Jones	COMPLETE – Email sent to executives 8/22
5	PTSA Reform: EDPR (b)5 Pre-decisional/Deliberative	Leathley, Enyeart, Nichols-Kinas	COMPLETE

# NOS Capital Project Updates

## 2008 NOS Projects:

# Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

### Budget

- Total Project costs (Direct): \$186 million
- Actual costs to date (**Direct as of 11/7/13**) \$148.2 million

### Activities:

#### Last 30 days

- Met with Washington State Historic Preservation Officer to discuss project schedule and remaining cultural resource tasks.
- Conducted conference call with consulting parties to discuss mitigation proposal.
- Human remains were disturbed by BNSF near guard structure and BPA ROW. Could impact project schedule.
- Working with Wilson CC to resolve cure requirements.
- Renewal of land permits continues.
- Deliberation with condemned land owners continues.
- Initiated Categorical Exclusion (CX) document for Knight-Wautoma fiber.
- Wautoma reactor work continues.

#### Next 30 days

- Distribute updated programmatic agreement for signature incorporating remaining mitigation.
- Encourage BNSF to work through damage assessment process so that BPA can access area for guard structure.
- Continue to assist Department of Justice with condemnation proceedings.
- Continue working with Wilson CC to meet cure requirements.
- Continue land permitting renewal process.
- Continue working on Categorical Exclusion (CX) document for Knight-Wautoma fiber.

# 2008 NOS Projects:

## Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Theresa Berry

### Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2014 Spring- Construction Start
- 2015 December – Energization

### Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 11/7/13**) \$20.1 million

### Activities:

#### Last 30 days

- Transmission line right-of-way acquisition in progress.
- Outreach to tribal entities and SHPO complete.
- Biologic and Cultural Surveys complete.
- Substation Design Team has been deployed to refresh or update designs at five Substations under this project.
- RFO out for Line work on 10/18/2013

#### Next 30 days

- Transmission line right-of-way acquisition in progress.
- Work on Supplement Analysis.
- Finalize Section 106 Consultation.
- Continue with Substation Design.
- Bidders Tour for the line 10/30/2013.

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- Early 2014 updated map of preferred route
- Late 2014 - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2015 start construction (if decision to build)
- Spring 2018 – Energization

### Budget

- Total Project costs (Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (**Direct as of 11/7/13**): \$35.7 million

### Activities:

#### Last 30 days

- Team continued reviewing comments on Draft EIS and drafting responses.
- PM and siting team continued working with land owners to consider adjustments to preferred route tower and road locations.
- Team has secured limited temporary access agreements with large land owners, including Weyerhaeuser, DNR, Longview Timber, Sierra Pacific (new), Port of Portland, PAC, PGE, City of Camas, and City of Washougal, and will modify when needed.
- Realty Team has secured Permission to Enter Properties (PEP's) and with high percentage of small landowners.
- Team has gotten Sierra Pacific to concur in principal on necessary reroute.

#### Next 30 days

- Team reviewing comments on Draft EIS and drafting responses.
- PM and siting team will continue working with landowners and will make some of the tougher decisions about adjustments to preferred route.
- Realty Team will continue to secure Permission to Enter Properties (PEP's).
- DNR fully engaged now in route adjustment decisions BPA has to make, Weyerhaeuser just finished initial engineering study and we will start working with them soon, Longview Timber about to start engineering study.
- Will need to revisit schedule.

## 2008 NOS Projects:

### Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1); New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

#### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

#### Budget

- Total Project costs (Direct): \$186 million
- Actual costs to date (**Direct as of 12/6/13**) \$149.3 million

#### Activities:

##### Last 30 days

- Outreach efforts relative to the human remains are as follows:
  - Conducted a formal meeting with the USFS and Gorge Commission to discuss the executed Summary Order.
  - Tribal Affairs met with YN Cultural Resource director.
  - Public Relations continues to work with BNSF.
- National Park Service continues to address their concerns to BPA.
- Working with Wilson CC to resolve cure letter requirements with certain resolution.
- Postponed Big Eddy-Harvalum outage from 1/3/2014 to 2/3/2014.
- Renewal of land permits continues.
- Amended Programmatic Agreement ready for distribution to the consulting parties.
- Initiated Categorical Exclusion (CX) document for Knight-Wautoma fiber.
- Wautoma reactor work continues.

##### Next 30 days

- Complete Categorical Exclusion (CX) for Knight-Wautoma fiber.
- Prepare for possible meeting between the YN Chairman and BPA Administrator.
- Monitor the damage assessment associated with the discovery of the human remains.
- Send the Gorge Commission a request to again access to 45KL77.
- Continue to reach out to BNSF regarding mobile guard structure.
- Distribute the amended Programmatic Agreement to the consulting parties based on the results of the consultation with the YN.
- Prepare solicitation document for Knight-Wautoma fiber contract work.

# 2008 NOS Projects:

## Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Chad Hamel

### Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2014 Spring- Construction Start
- 2015 December – Energization

### Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 12/6/13**) \$20.3 million

### Activities:

#### Last 30 days

- Transmission line right-of-way acquisition in progress.
- Discussions with tribal entities and SHPO continuing.
- Corp of Engineers Permits are being pursued.
- 90% design updated made for Substation Design for five Substations under this project.
- Line construction work bidding process in progress.

#### Next 30 days

- Transmission line right-of-way acquisition in progress.
- Work on Supplement Analysis.
- Finalize Section 106 Consultation.
- Continue with Substation Design.
- Line construction work bid offers are due 1/6/2014

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- Early 2014 updated map of preferred route
- Late 2014 - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2015 start construction (if decision to build)
- Spring 2018 – Energization

### Budget

- Total Project costs (Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (**Direct as of 12/6/13**): \$36.8 million

### Activities:

#### Last 30 days

- Team continued reviewing comments on Draft EIS and drafting responses.
- Siting team worked with land owners to consider route adjustments
- Realty Team secured additional Permission to Enter Properties (PEP's) with small landowners.
- Real property developing team and processes to help describe effort and schedule for acquisition if needed (over 1100 acquisitions)
- Environmental surveys conducted where needed to support siting effort

#### Next 30 days

- Siting team will continue working with landowners.
- DNR fully engaged now in route adjustment decisions BPA has to make, Weyerhaeuser just finishing initial engineering study, Longview Timber starting engineering study.
- Special team working on troubling "indemnification" language required in all our contracts providing field services by large landowner access agreements
- Working to centralize vast access key distribution effort on behalf of landowners
- New working copy photo map book in January
- Need to review NEPA funding and project schedule
- Setting up road and tower surveys, and environmental surveys for segments of route as they become finalized as part of NEPA effort

# NOS – Cluster Study Extension

- The NOS team has identified several significant policy issues while carrying out the 2013 Cluster Study
- Resolving these issues will prevent the team from concluding the Cluster Study within the original estimated timeline (end of December, 2013)
- BPA will maintain tariff compliance provided that we post a notice indicating the reason for an extension and the estimated time needed to complete the study
  - The team will host a Customer conference call this week to go over preliminary plans of service and notify Customers of the needed extension
- Staff estimates needing an additional 90-120 days to complete the Cluster Study

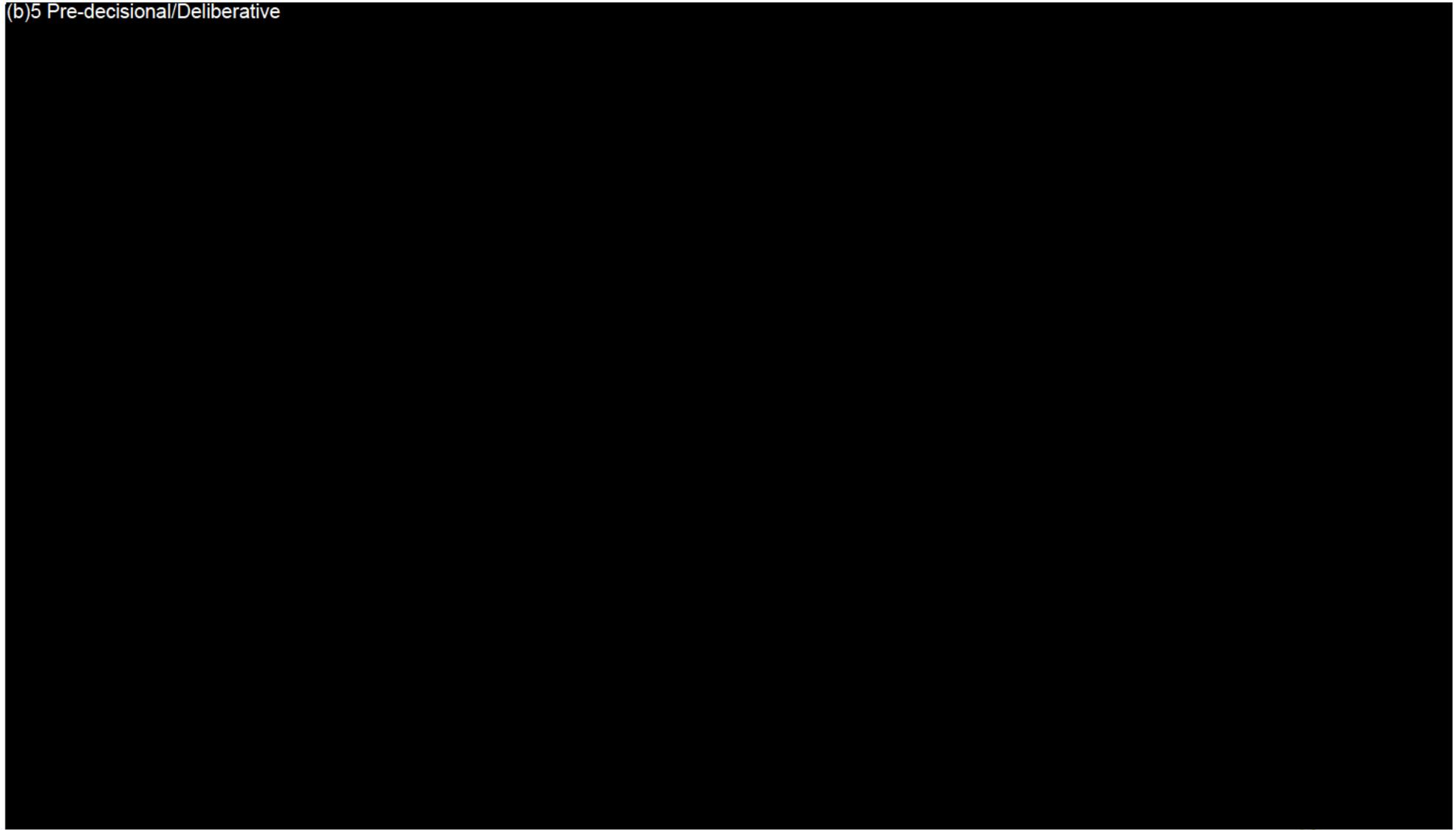
# Cluster Study – Issues

(b)5 Pre-decisional/Deliberative



# 1. Mid-C Area Issues (Critical Path)

(b)5 Pre-decisional/Deliberative



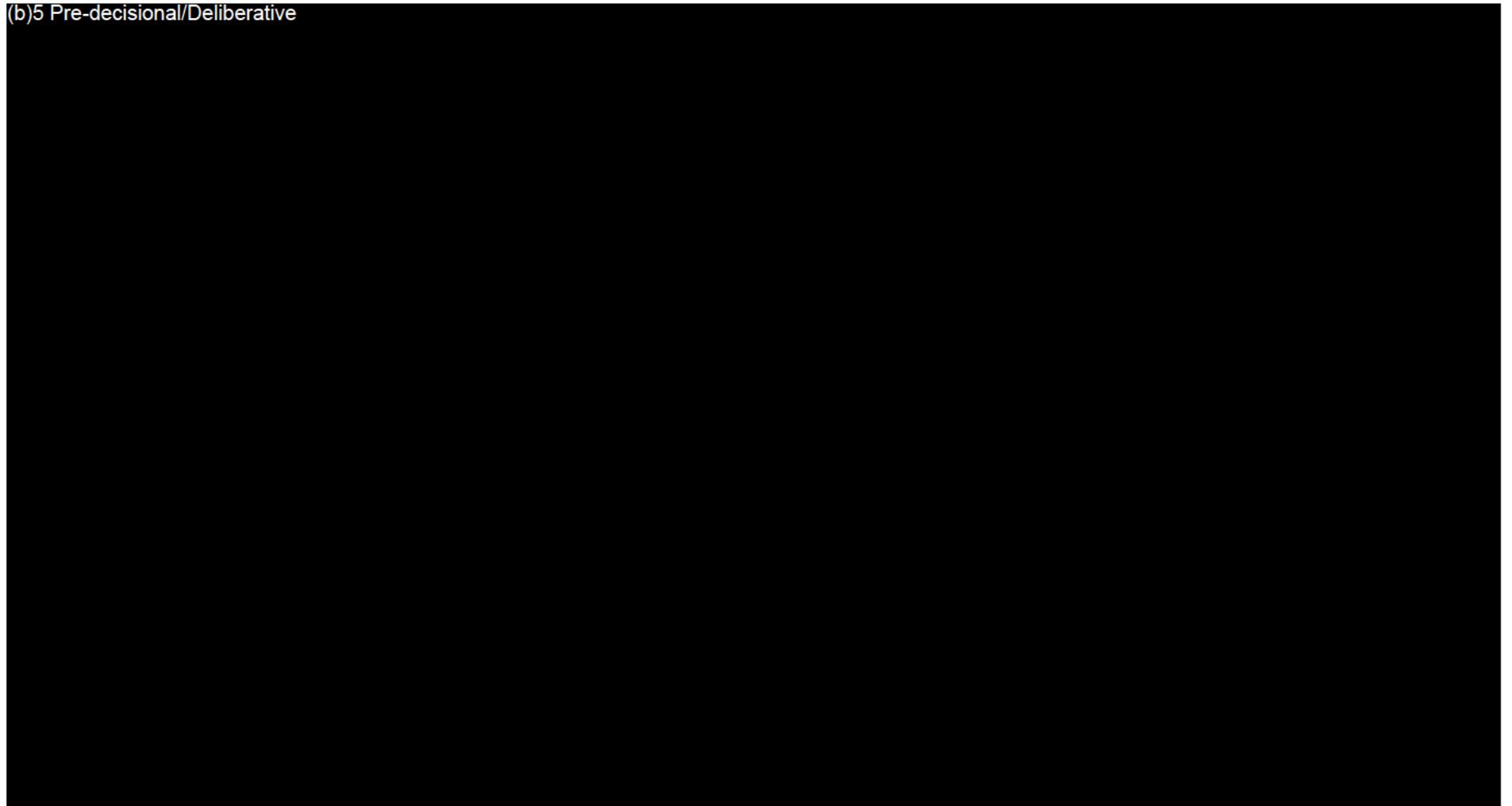
## 2. Requests for Transmission Flexibility

(b)5 Pre-decisional/Deliberative



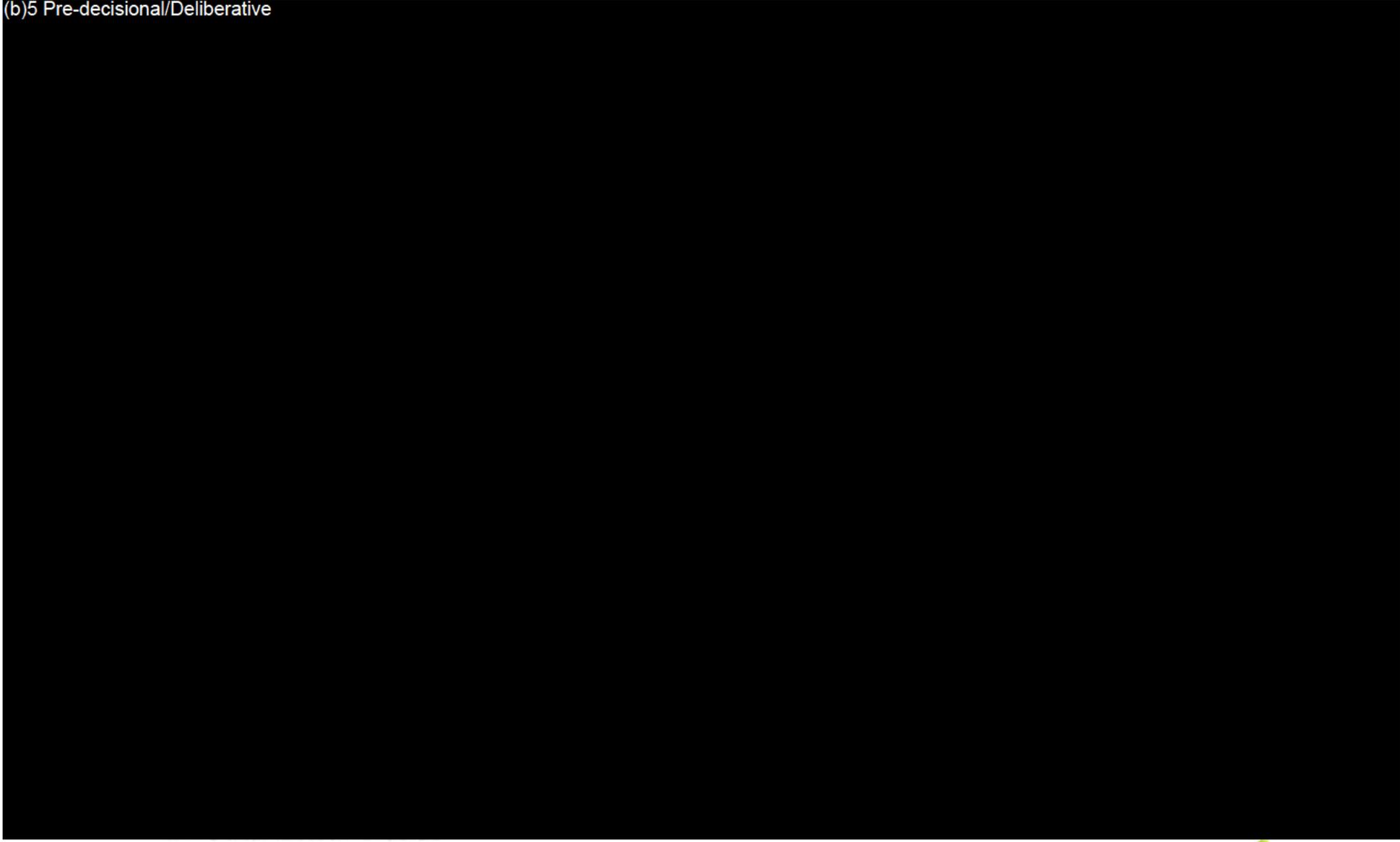
# 3. Impacts to Non-network Facilities

(b)5 Pre-decisional/Deliberative



# 4. ColumbiaGrid Engagement

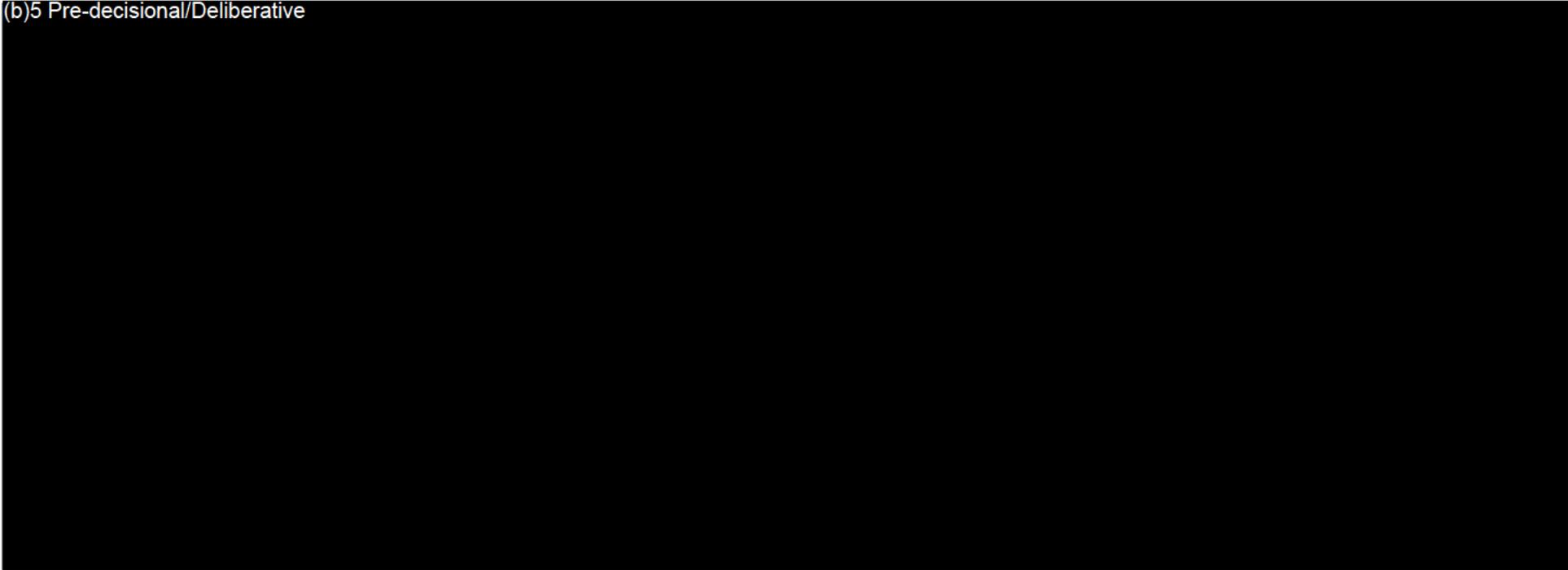
(b)5 Pre-decisional/Deliberative



# Project Plan and Next Steps

- The NOS team has developed a project plan for completing each of these issues, with relevant milestones, decision points and deliverables

(b)5 Pre-decisional/Deliberative



## 2008 NOS Projects:

# Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1) New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

### Budget

- Total Project costs (Direct): \$186 million
- Actual costs to date (**Direct as of 1/17/14**) \$149.7 million

### Activities:

#### Last 30 days

- Met with the Executive Team to decide on the following:
  - human remains disturbance relative to 45KL7
  - project schedule
- The Administrator and BPA staff conducted a phone conference with the Yakama Tribe Chairman.
- Executed an official *extension request* to the USFS regarding Consistency Determination.
- Met with Wilson CC to ensure they can continue to support the project in light of the new schedule.
- Postponed Big Eddy-Harvalum outage from 3/1/2014 to 7/1/2014.
- Postponed Ostrander-Wautoma outage to spring of 2015.
- Renewal of land permits continues.
- Categorical Exclusion (CX) for Knight-Wautoma fiber complete.
- Wautoma reactor work continues.

#### Next 30 days

- Complete Categorical Exclusion (CX) for Knight-Wautoma fiber.
- Prepare for possible meeting between the YN Chairman and BPA Administrator.
- Monitor the damage assessment associated with the discovery of the human remains.
- Send the Gorge Commission a request to gain access to 45KL77.
- Continue to reach out to BNSF regarding mobile guard structure.
- Distribute the amended Programmatic Agreement to the consulting parties based on the results of the consultation with the YN.
- Prepare solicitation document for Knight-Wautoma fiber contract work.
- Contractor preconstruction site visit January 23<sup>rd</sup>
- Start fiber construction Fall 2014 from tower 17/5 to Wautoma sub

# 2008 NOS Projects:

## Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Chad Hamel

### Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2014 Spring- Construction Start
- 2015 December – Energization

### Budget

- Total Project costs (Direct): \$90 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 1/17/14**) \$20.3 million

### Activities:

#### Last 30 days

- Transmission line right-of-way acquisition in progress.
- Discussions with tribal entities and SHPO continuing. Face to face meeting with SHPO on 1/22/14. (went well)
- Corp of Engineers announced they would adopt our NEPA.
- 90% design updated made for Substation Design for five Substations under this project.
- Line construction bids received. Much higher than government estimate.

#### Next 30 days

- Transmission line right-of-way acquisition in progress. 4 parcels remaining. Packages ready to present to land owners.
- Work on Supplement Analysis should conclude.
- Finalize Section 106 Consultation.
- USACE issue of FONSI/EIS adoption document.
- Final Substation Design completion by 1/30/14.
- Start substation construction work solicitation from February 10, 2014.
- Line construction work bid reviews 1/27/2014.

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- Early 2014 updated map of preferred route
- Late 2014 - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2015 start construction (if decision to build)
- Spring 2018 – Energization
- Schedule change will be requested soon

### Budget

- Total Project costs (Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (Direct as of 1/17/14): \$39.0 million
- Funding change will be requested soon

### Activities:

#### Last 30 days

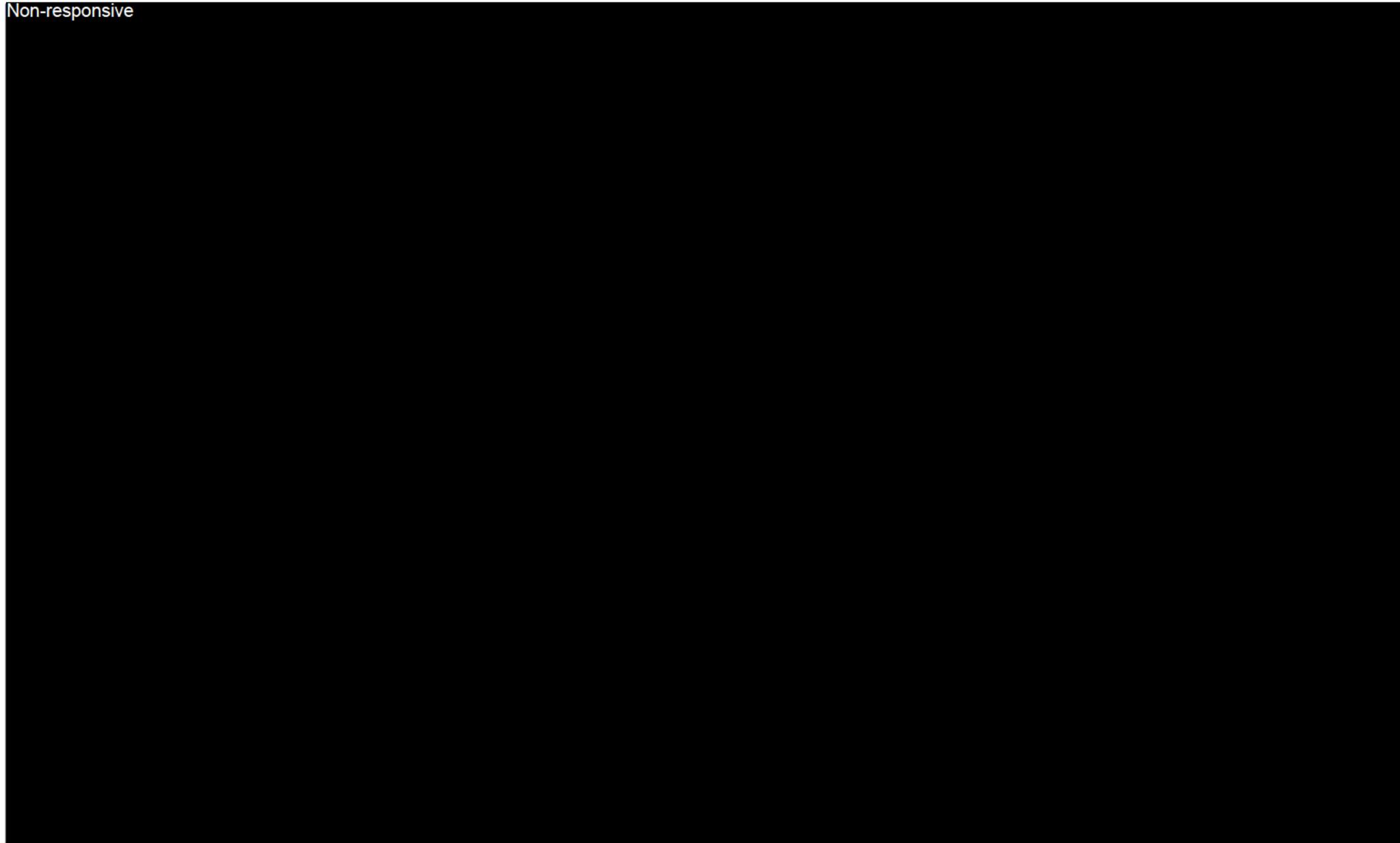
- Team continued reviewing comments on Draft EIS and drafting responses.
- Siting team worked with land owners to consider route adjustments
- Due to the agencies heavy reliance on contract employees and contracted firms, it is taking a long time to modify those contracts to meet the insurance and indemnification requirements of large landowners and allow us to work on their property.
- New working copy photo books distributed to team

#### Next 30 days

- Will request additional time and funding for project
- Planning working on updated load forecasts and studies for electrical need date
- Non-wires team developing tools to be available for pushing out need date
- Setting up road and tower surveys, and environmental surveys for segments of route as they become finalized as part of NEPA and preliminary design effort
- Continue work on DEIS comments
- Continue work with landowners and adjusting tower and road locations

# Pacific Direct Current Intertie Upgrade

Non-responsive

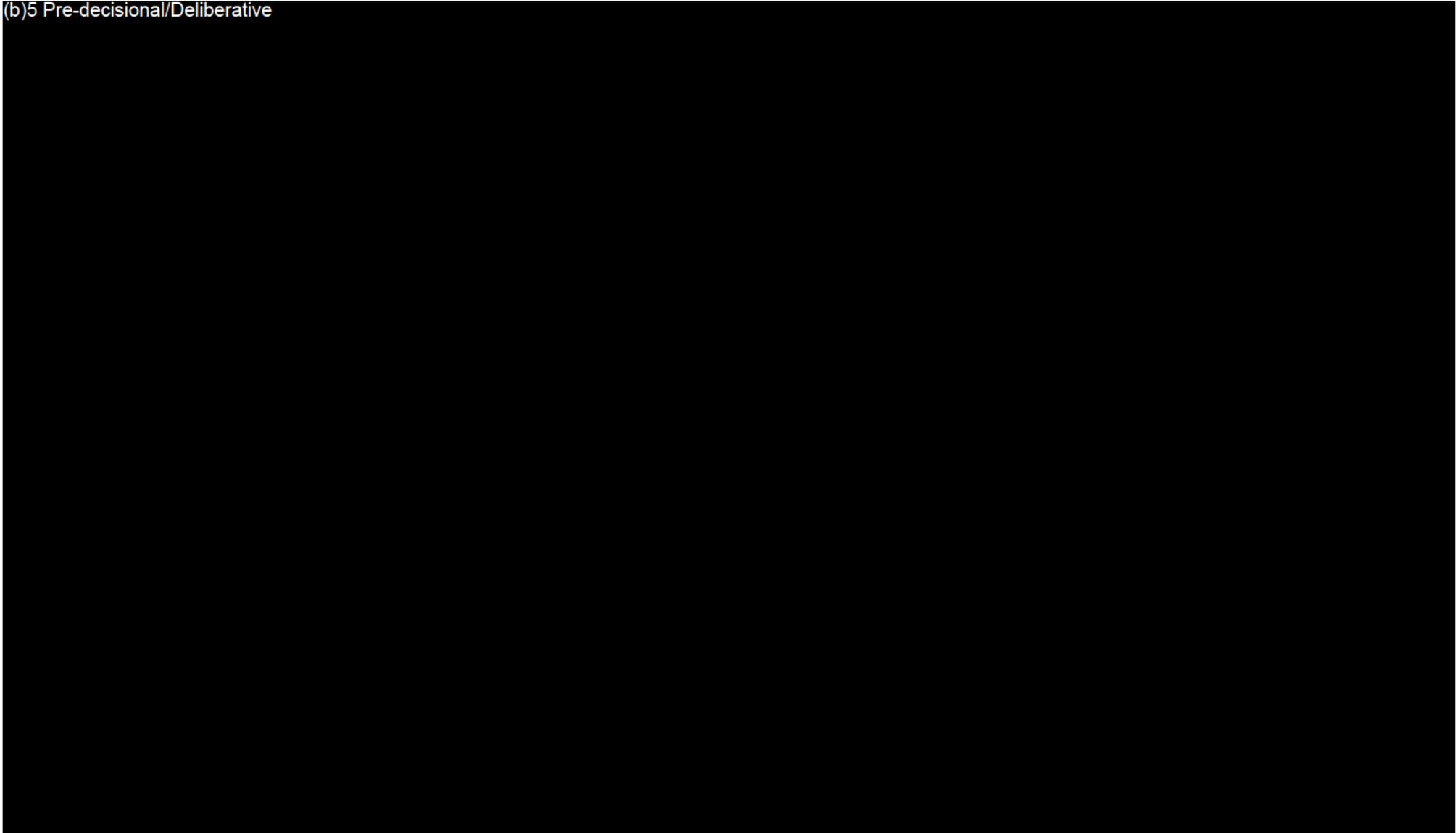


# NOS – Cluster Study Update

- On December 29, 2013, BPA informed customers of an extension of the 2013 NOS Cluster Study until April 30, 2014 in order to resolve two critical path issues that will inform the Cluster Study.
- The NOS team held a Customer meeting on January 15<sup>th</sup> to provide additional details and go over preliminary Cluster Study findings.
  - Customers and stakeholders were generally supportive of the extension, provided BPA would be able to resolve the issues in a timely manner.
- The NOS team provided an identical presentation at a ColumbiaGrid planning meeting January 16<sup>th</sup>.

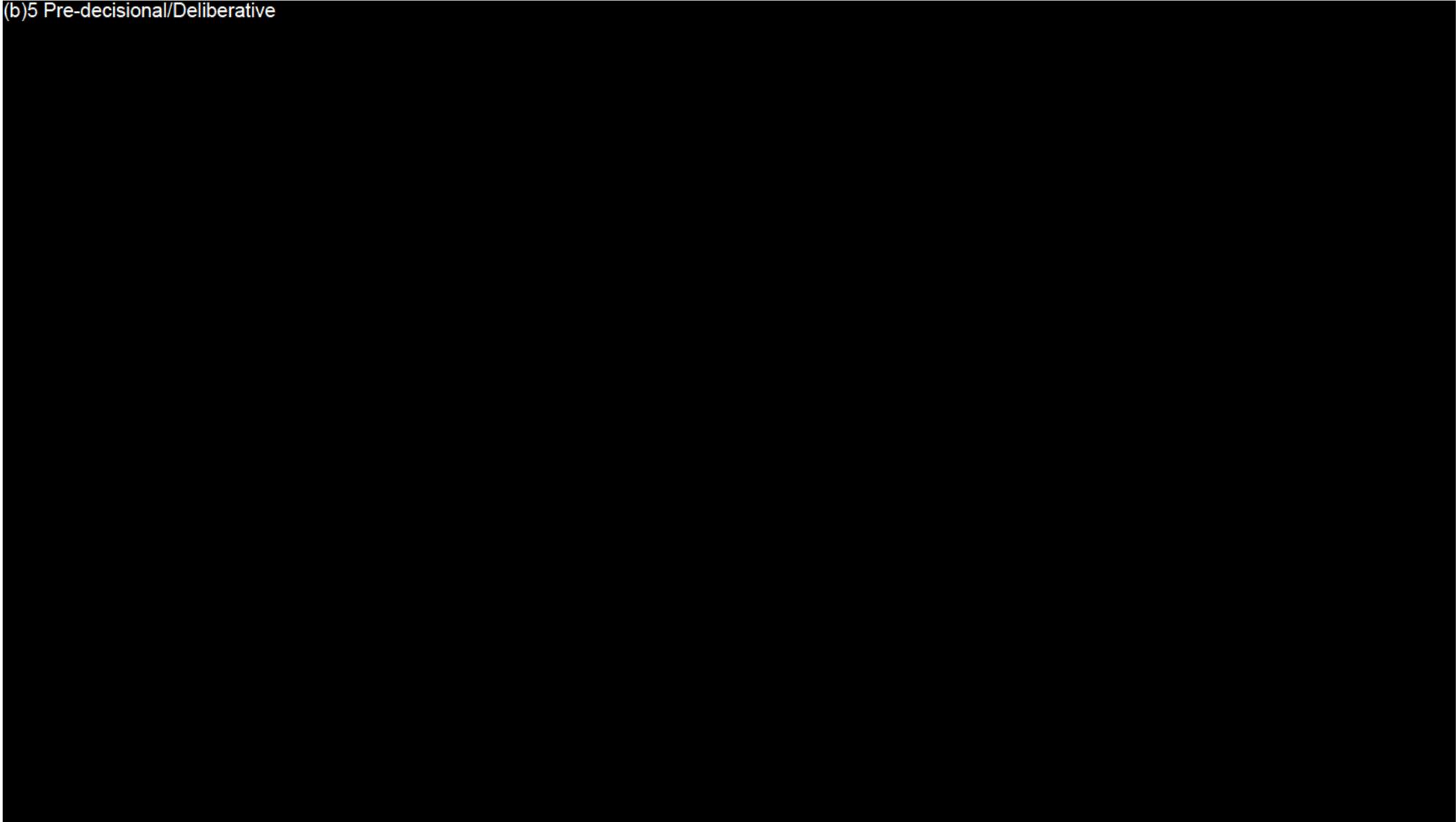
# Critical Path Issues

(b)5 Pre-decisional/Deliberative



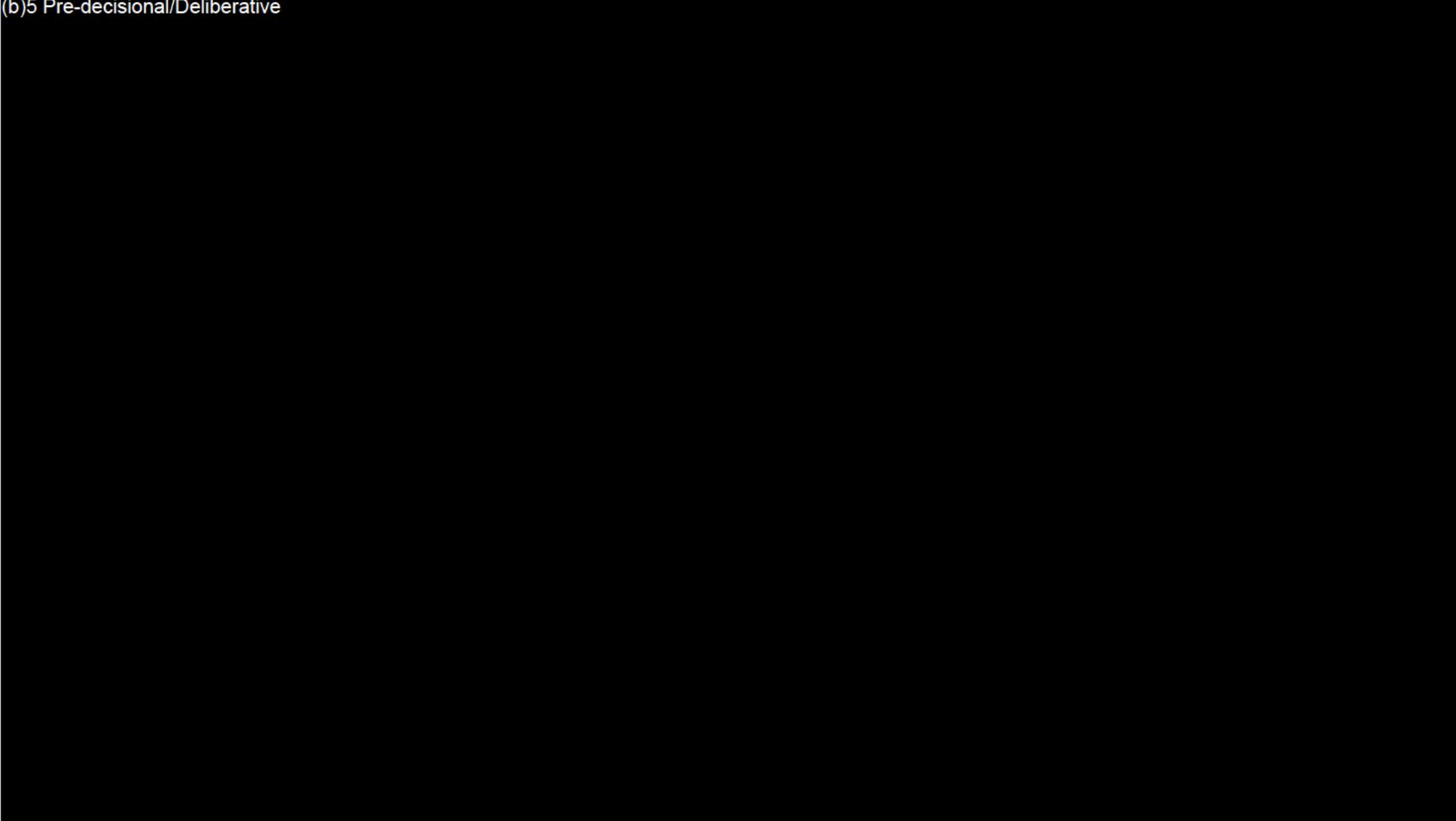
# Other Issues of Concern

(b)5 Pre-decisional/Deliberative



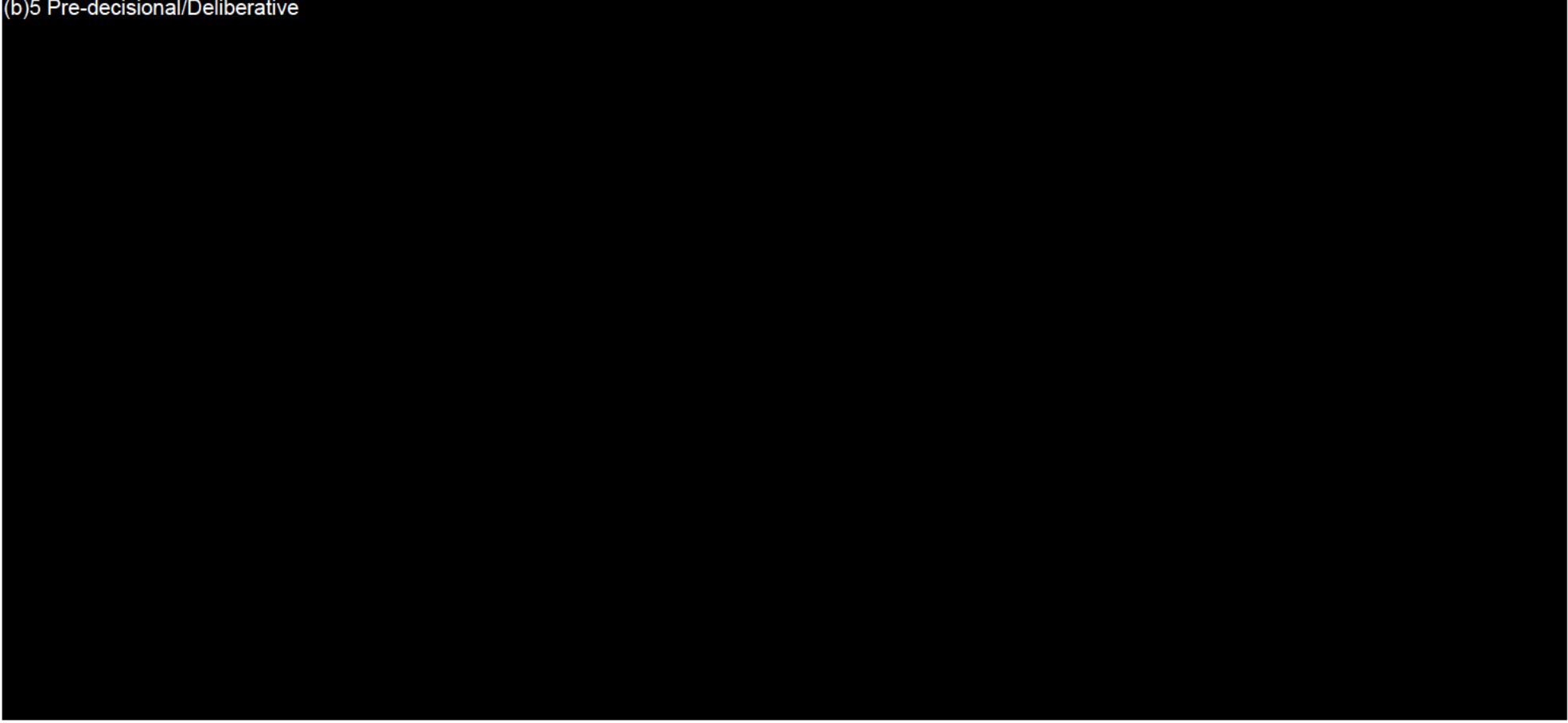
# Cluster Study Areas – Preliminary Plans of Service

(b)5 Pre-decisional/Deliberative



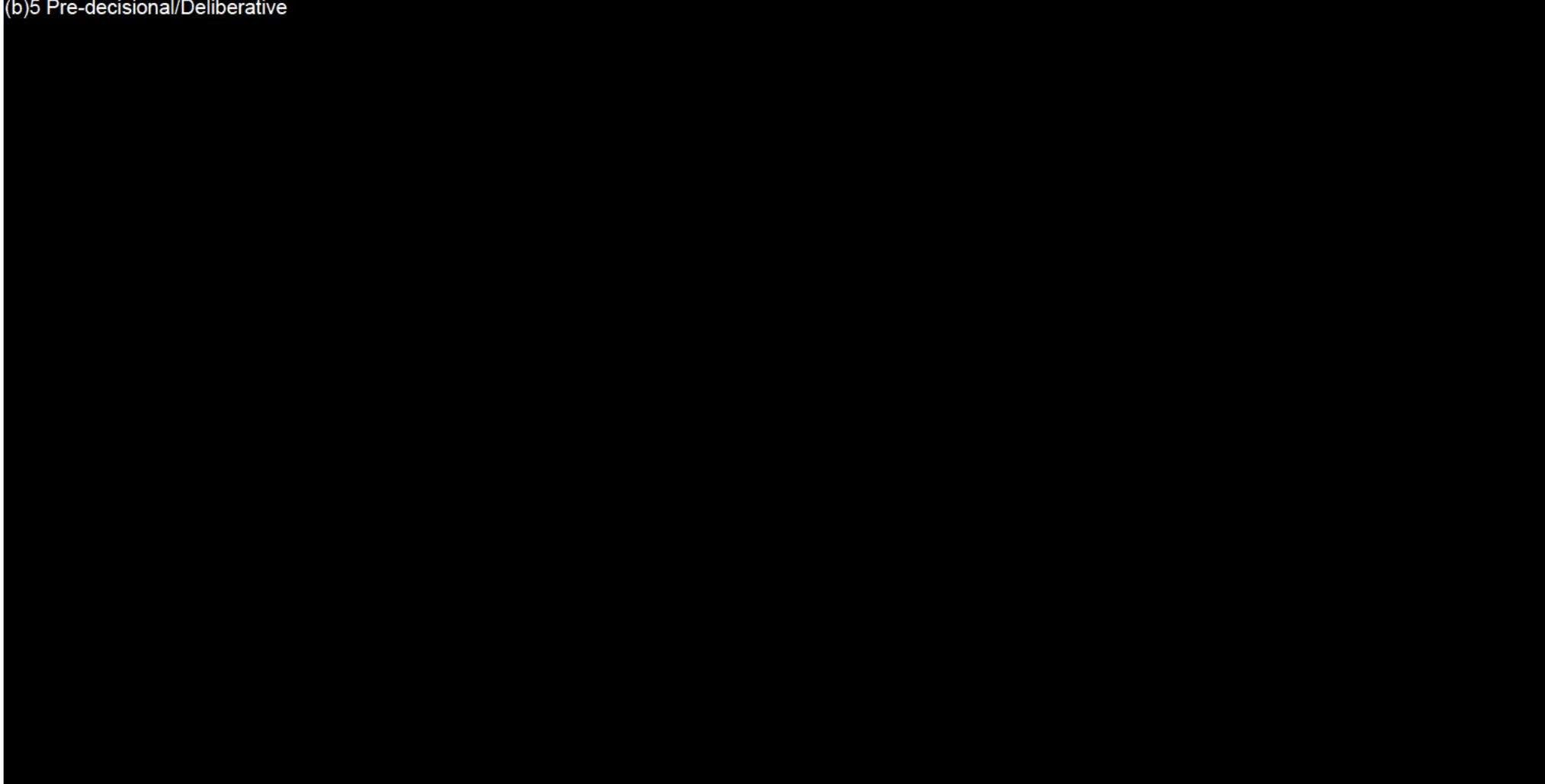
# Cluster Study Areas – Preliminary Plans of Service

(b)5 Pre-decisional/Deliberative



# Cluster Study Areas – Preliminary Plans of Service

(b)5 Pre-decisional/Deliberative



# Appendix



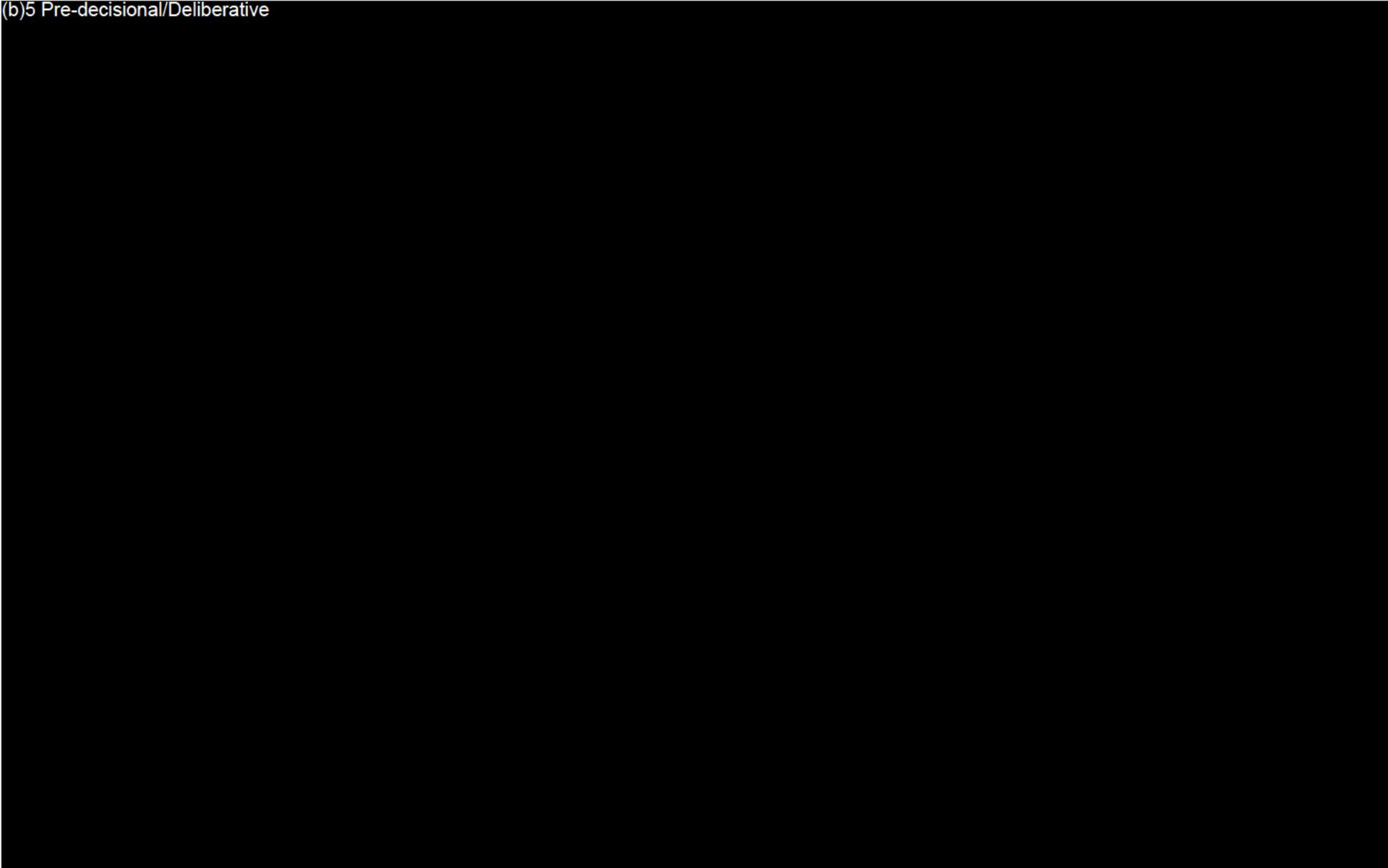
# Notice of Extension Language

Bonneville Power Administration is providing notice that the completion of the 2013 Cluster Study will be extended from the end of December until April 30, 2014. BPA needs additional time in order to evaluate requests in light of certain components of its long-term Available Flowgate Capability methodology. The results of such evaluation will inform the scope, size, and necessity of transmission upgrades identified to meet the requested demand in certain areas of BPA's transmission system. The Cluster Study has demonstrated that BPA needs to undertake a closer investigation of the impacts of some of the requests on certain Mid-Columbia area substations. The Mid-Columbia area is an extremely complex part of the system, with multiple transmission owners and many system-to-system interconnections. BPA needs additional time in order to better evaluate that part of the system and determine how to address the requests in the Study that impact it.

BPA will hold a follow-up Customer meeting on Wednesday, January 15<sup>th</sup> to provide additional details on the extension and answer questions from Customers and stakeholders.

# Requests for Transmission Flexibility

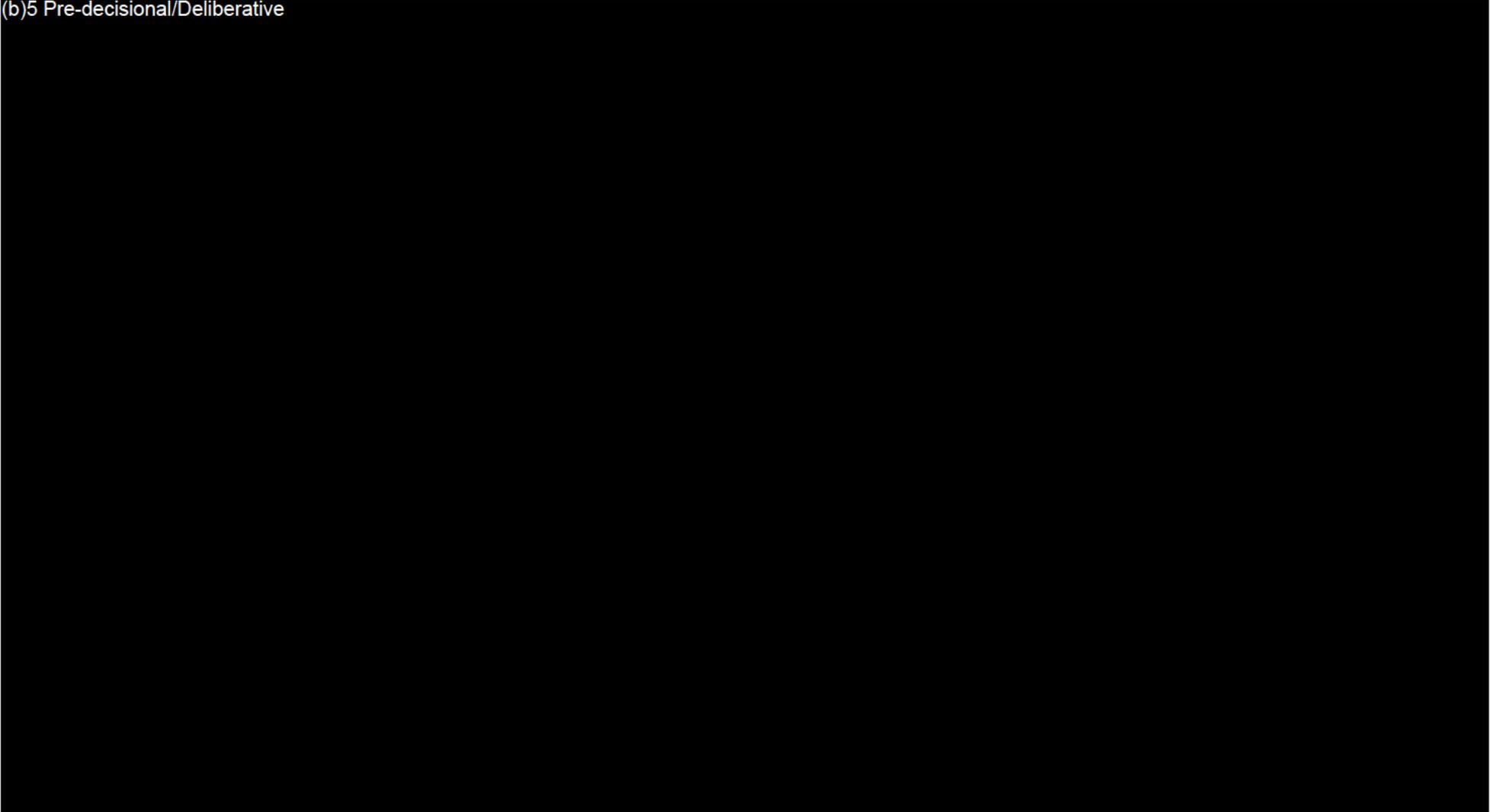
(b)5 Pre-decisional/Deliberative





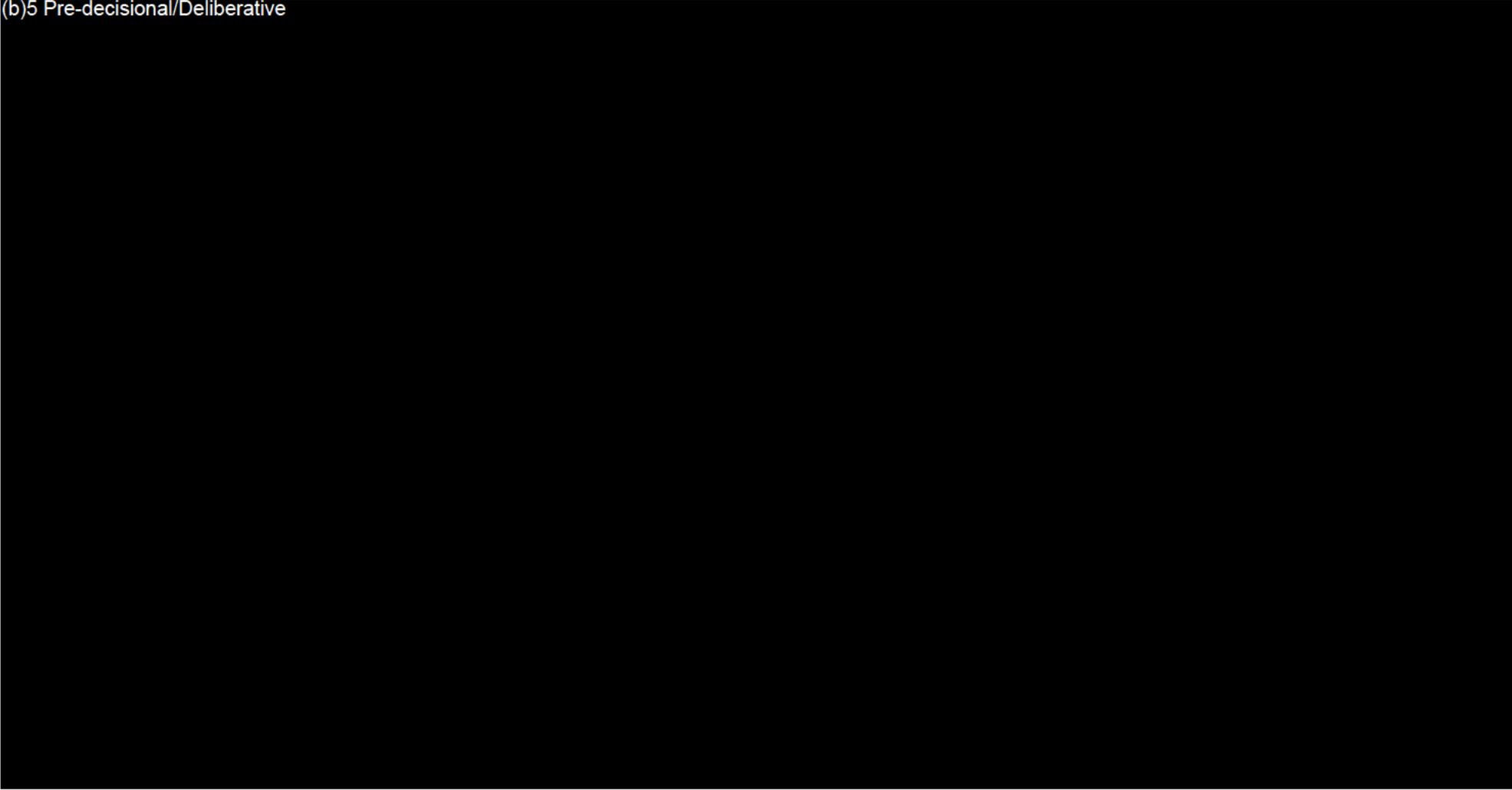
# Impacts to Non-network Facilities

(b)5 Pre-decisional/Deliberative



# ColumbiaGrid Engagement

(b)5 Pre-decisional/Deliberative



## 2008 NOS Projects:

# Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1) New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

### Budget

- Total Project costs (Direct): \$186 million
- Actual costs to date (**Direct as of 2/12/14**) \$150 million

### Activities:

#### Last 30 days

- Filed new Consistency Review Application with the USFS.
- Sent the amended Programmatic Agreement to consulting parties for approval.
- Renewal of land permits continues. BPA realty and OGC is working on clearing the title relative to the Klickitat County easement rights.
- Wautoma reactor work continues and nearing completion.
- Reviewed contractor solicitations for the Knight-Wautoma fiber work.
- Met with Klickitat County Commissioners to provide monthly project status.

#### Next 30 days

- Award construction contract for the Knight-Wautoma fiber work.
- Follow up with the USFS regarding the Consistency Review process and public commenting period.
- Meet with the U.S Army Corp of Engineers to discuss the renewal of the river crossing permit as part of the Section 404(b).
- Reach to the consulting parties on their assessment of the amended Programmatic Agreement.
- Reach out the Yakama Tribe to understand the status of the human remains on BNSF property.

# 2008 NOS Projects: Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Chad Hamel

## ● Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2014 Spring- Construction Start
- 2015 December – Energization

## ● Budget

- Total Project costs (Direct): \$122 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 2/12/14**) \$20.3 million

## Activities:

### Last 30 days

- Transmission line right-of-way acquisition in progress.
- Discussions with tribal entities and SHPO continuing. Secured limited rights to be able to set up material yard and receive materials.
- Completed pre-bid tour for substation contract.
- Apparent awardee chosen for line contract. Negotiations and clarifications ongoing.
- Preparation for securing an additional \$32M for the PAR/Business Case.

### Next 30 days

- Transmission line right-of-way acquisition in progress. 4 parcels remaining. Packages ready to present to land owners.
- Finalize Section 106 Consultation and Supplement Analysis
- USACE issue of FONSI/EIS adoption document.
- Continue with substation construction solicitation process.
- Set up of material yard and begin receiving materials.
- Award line contract. Notice To Proceed in April.

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- Early 2014 updated map of preferred route
- Late 2014 - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2015 start construction (if decision to build)
- Spring 2018 – Energization
- Schedule change will be requested soon (proposing FEIS late 2015, ROD early 2016, energization spring 2021)

### Budget

- Total Project costs (Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (Direct as of 2/12/14): \$39.9 million
- Funding change will be requested soon (proposing an additional \$40M for NEPA and preliminary engineering for next 2 years)

### Activities:

#### Last 30 days

- Team continued reviewing comments on Draft EIS and drafting responses.
- Siting team worked with land owners to consider route adjustments
- Field work continued to be mostly on hold while agency explores best way forward- Permission to Enter Property agreements require insurance and unlimited indemnification language in our contracts with contracted employees, firms, and their subcontractors.

#### Next 30 days

- Will request additional time and funding for project
- Planning working on updated load forecasts and studies for electrical need date
- Non-wires team developing measures to be available for pushing out need date
- Continue work on DEIS comments
- Continue work with landowners and adjusting tower and road locations
- Agency continues discussing how to handle indemnification

# Pacific Direct Current Intertie Upgrade

Non-responsive

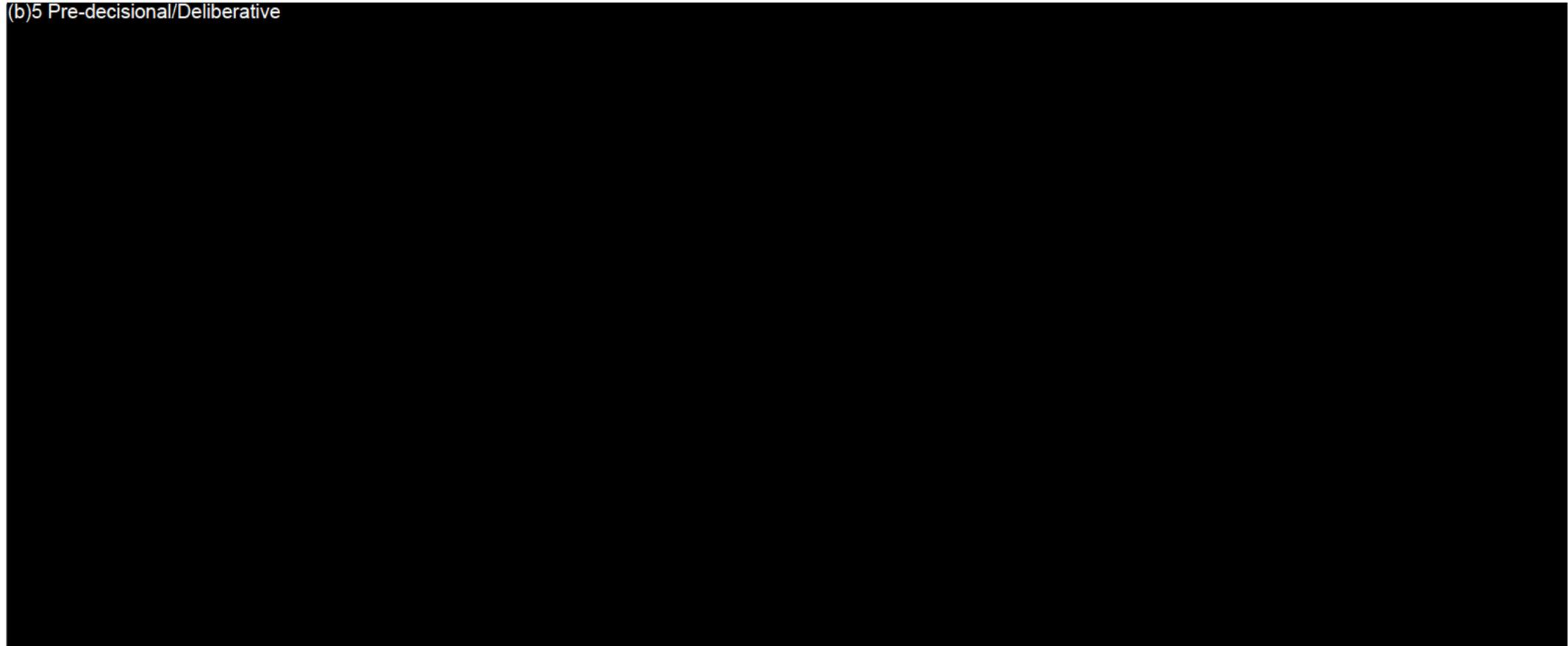


# I-5 Non Wires



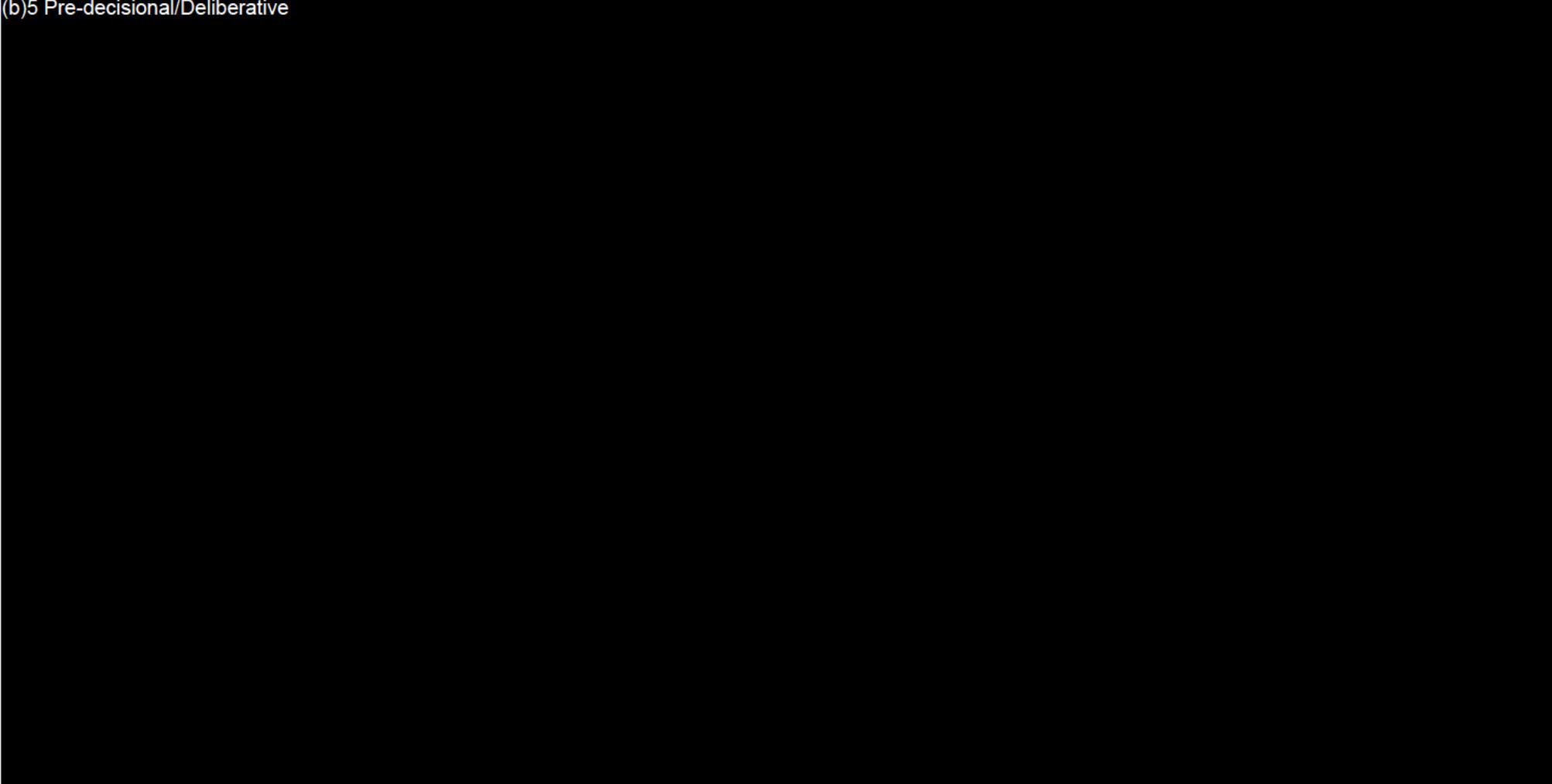
# Objectives

(b)5 Pre-decisional/Deliberative



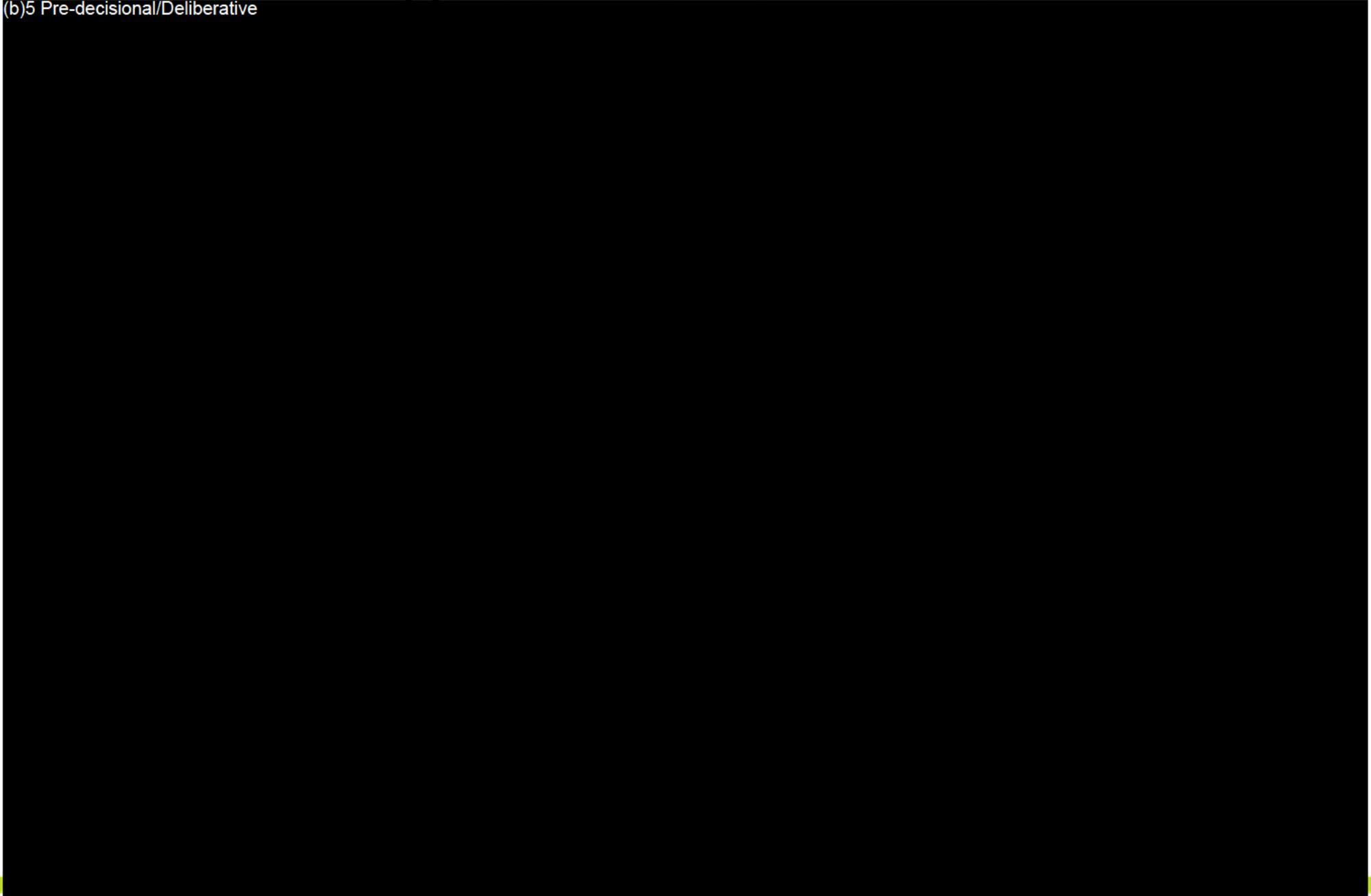
# Project Need

(b)5 Pre-decisional/Deliberative



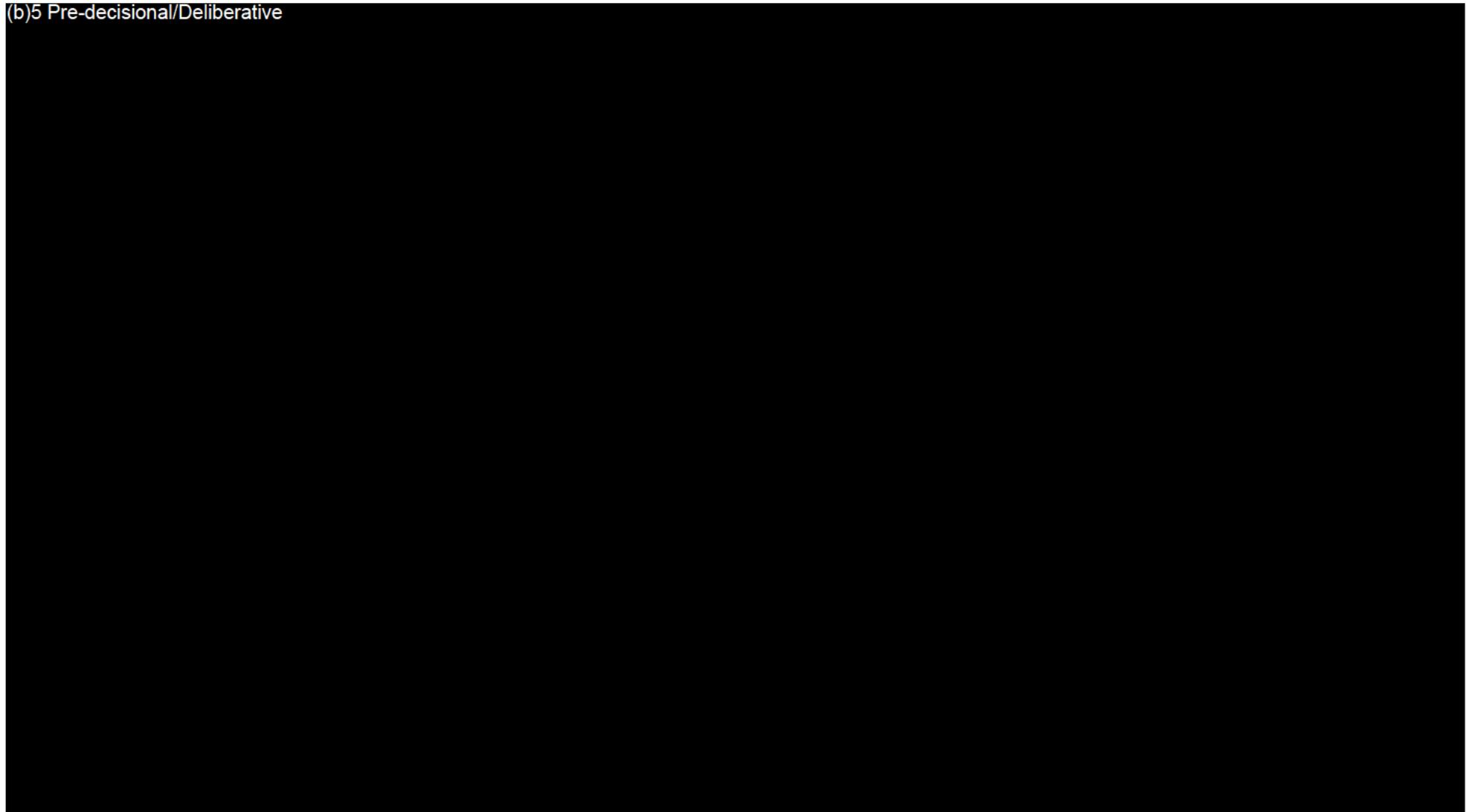
# Typical Power Flows

(b)5 Pre-decisional/Deliberative

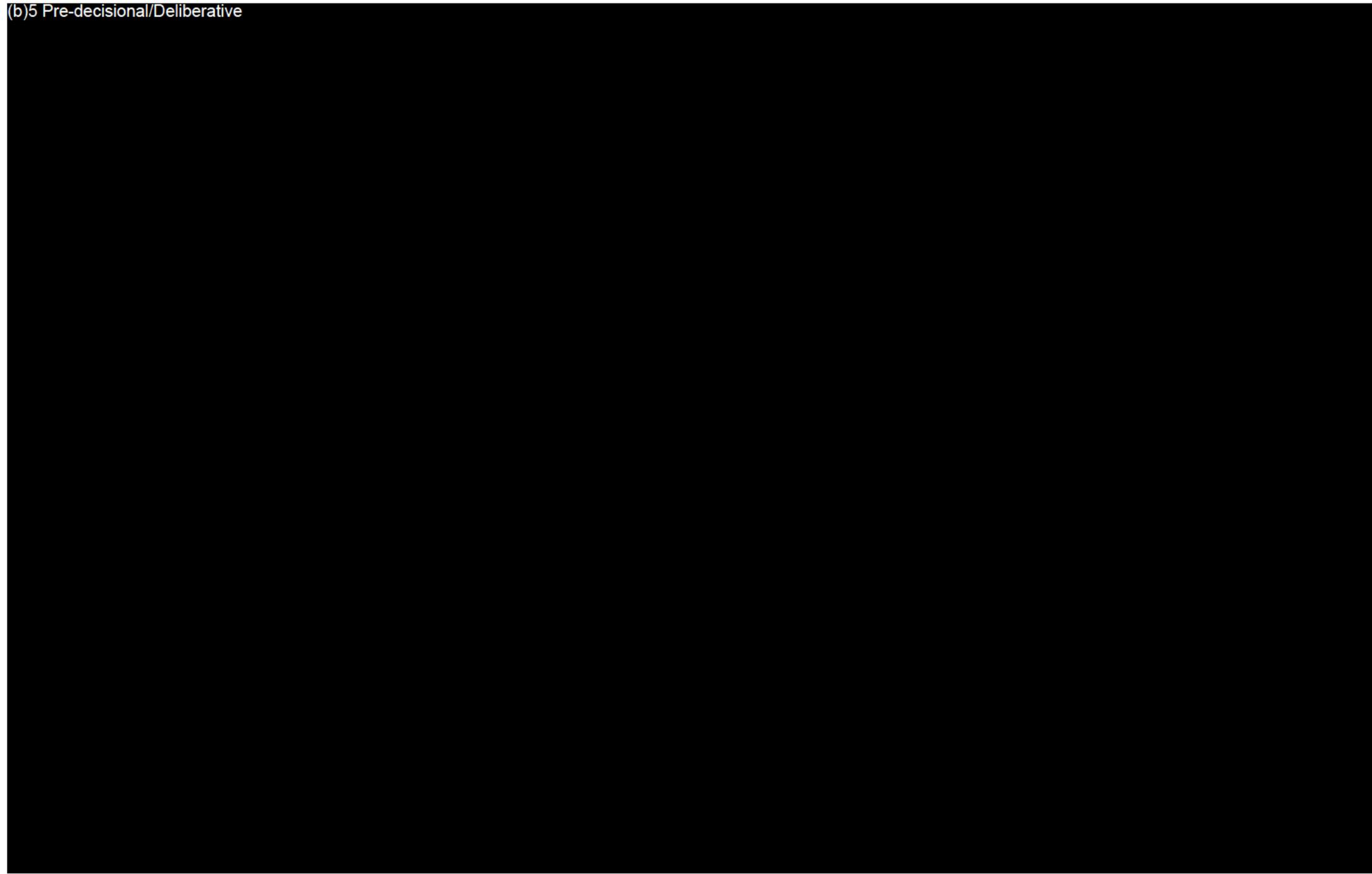


# Transmission Team Scope

(b)5 Pre-decisional/Deliberative

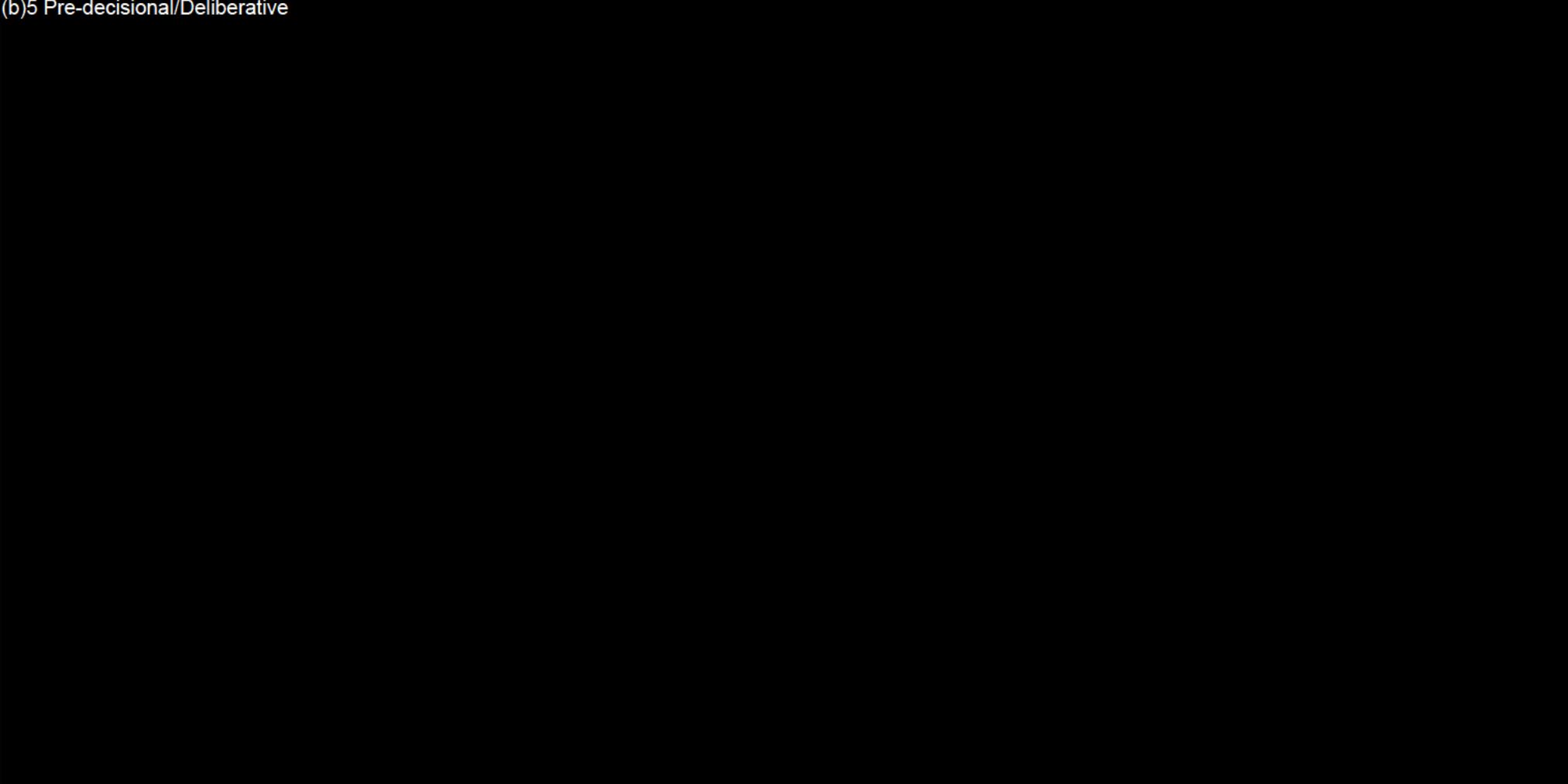


(b)5 Pre-decisional/Deliberative



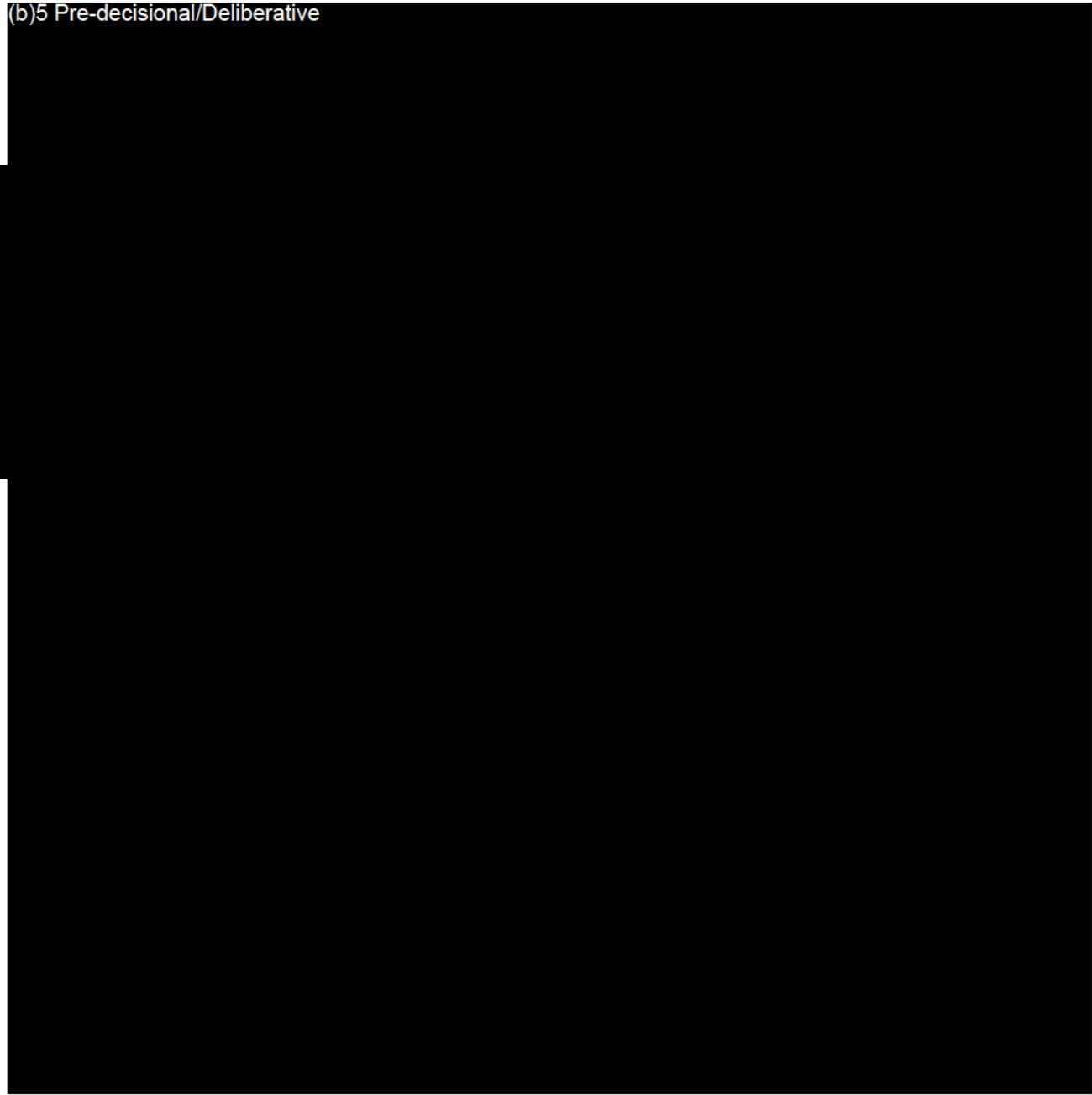
# Contingency Plan Example

(b)5 Pre-decisional/Deliberative



# Contingency Plan Example

(b)5 Pre-decisional/Deliberative



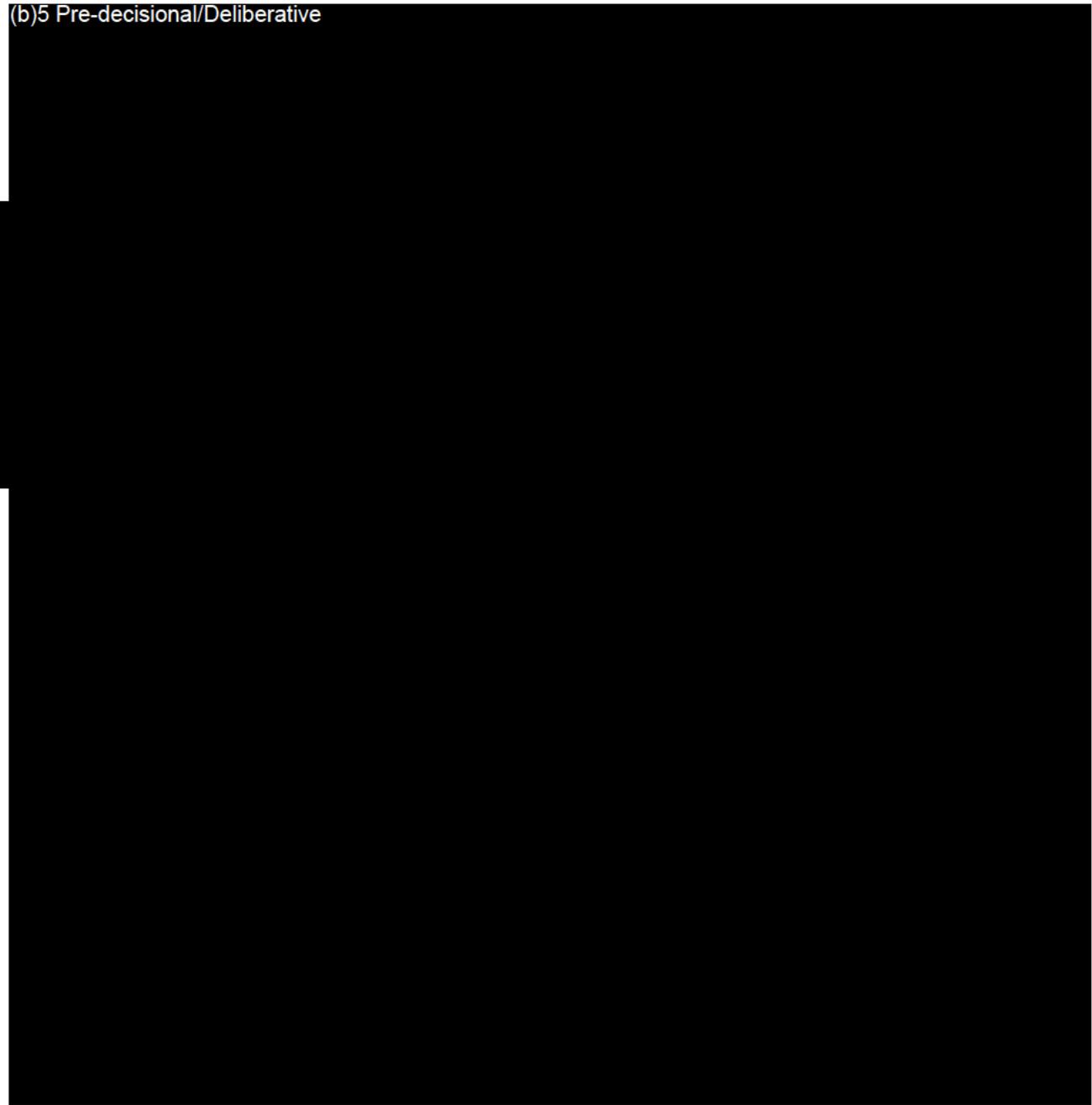
(b)5 Pre-decisional/Deliberative



# Contingency Plan Example

(b)5 Pre-decisional/Deliberative

(b)5 Pre-decisional/Deliberative



# Contingency Plan Example

(b)5 Pre-decisional/Deliberative



(b)5 Pre-decisional/Deliberative



# Project Milestones

(b)5 Pre-decisional/Deliberative



# Next Steps

1. Finalize project plan and milestones
2. Finalize executive sponsorship
3. Continue scoping efforts

# Meet the Team

- Sarah Arison, Project Lead
- Lauren Nichols-Kinas, Project Lead
- Maryam Asgharian, Public Affairs
- Frank Brown, Demand Response
- Nita Burbank, Agency Non Wires Program Manager
- Tom Coatney, Finance/Rates
- Mark Korsness, I-5 Wires Project Manager
- Anders Johnson, Long Term Transmission Planning
- Kevin Johnson, Transmission Operations
- Ken Nichols, Transmission Policy
- Steve Knudson, Power Long Term Sales & Purchases
- Tracey Salazar, Transmission Policy
- Tony Radcliff/Kendall Rydell, Near Term Transmission Planning
- Nancy Wittpenn/Jeffery Maslow, Environment
- Hub Adams, Legal

## 2008 NOS Projects:

### Big Eddy-Knight - West of McNary Reinforcement Group 2

**Project Description:** 28 miles new 500kV Transmission line, Big Eddy Substation bay addition new Knight Substation; (Phase 1) New fiber on Knight-Wautoma, new 500kV reactor at Wautoma Substation (Phase II).

**PM:** Emmanuel Jaramillo

#### Schedule

- 2009 Feb. - Project planning approved and launched
- 2011 Sept. - Record of Decision
- 2013 Feb. - Energization of new transmission line
- 2014 Dec. – Tentative date of project completion

#### Budget

- Total Project costs (Direct): \$186 million
- Actual costs to date (**Direct as of 3/12/2014**) \$151.2 million

#### Activities:

##### Last 30 days

- Provided supplemental information for new Consistency Review Application with the USFS.
- Reached out to the consulting parties on their assessment of the amended Programmatic Agreement.
- Renewal of land permits continues. BPA realty and OGC is working on clearing the title relative to the Klickitat County easement rights.
- Wautoma reactor work continues and nearing completion.
- Met with the U.S Army Corp of Engineers to discuss the renewal of the river crossing permit as part of the Section 404(b)

##### Next 30 days

- Award construction contract for the Knight-Wautoma fiber work.
- Support the USFS regarding the Consistency Review process and public commenting period.
- Support the U.S Army Corp of Engineers for renewal of the river crossing permit as part of the Section 404(b).
- Acquire signatures from the consulting parties on amended Programmatic Agreement.
- Continue to reach out the Yakama Tribe to understand the status of the human remains on BNSF property.

# 2008 NOS Projects: Central Ferry-Lower Monumental

**Project Description:** 40 miles new 500kV transmission line, Central Ferry and Lower Monumental Sub Bay Additions

**PM:** Chad Hamel

## ● Schedule

- 2009 Feb. - Project approved and launched
- 2011 March - Final Environmental Impact Statement (EIS) and Record of Decision (ROD)
- 2014 Spring- Construction Start
- 2015 December – Energization

## ● Budget

- Total Project costs (Direct): \$122 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$6.5 million
- Actual costs to date (**Direct as of 3/12/2014**) \$20.9 million

## Activities:

### Last 30 days

- Transmission line right-of-way acquisition in progress.
- Discussions with tribal entities and SHPO continuing. Secured limited rights to be able to set up material yard and receive materials.
- Completed pre-bid tour for substation contract.
- Negotiations and clarifications ongoing to award line contract
- Preparation for securing an additional \$32M for the PAR/Business Case.

### Next 30 days

- Transmission line right-of-way acquisition in progress. 4 parcels remaining. Packages ready to present to land owners.
- Finalize Section 106 Consultation and Supplement Analysis
- USACE issue of FONSI/EIS adoption document.
- Continue with substation construction solicitation process.
- Complete material yard and begin receiving materials.
- Award line contract. Notice To Proceed in April.

# 2008 NOS Projects:

## I-5 Corridor Reinforcement

**Project Description:** 79 miles new 500kV transmission line and 2 new substations

**PM:** Mark Korsness

### Schedule

- 2009 Feb. - Project approved and launched
- 2012 Nov. – Draft EIS and identification of preferred route, Central Alternative using Option 1
- 2013 March 25th – Close of formal comment period
- Summer 2014 updated map of preferred route
- Late 2014 - Final Environmental Impact Statement (EIS), Early 2015 Record of Decision (ROD)
- 2015 start acquisition and construction (if decision to build)
- Spring 2018 – Energization
- Schedule change being requested to match new need date (proposing FEIS late 2015, ROD early 2016, energization spring 2021)

### Budget

- Total Project costs (NEPA, Direct): \$45 million
- National Environmental Policy Act (NEPA) and preliminary engineering costs (Direct): \$45 million
- Actual costs to date (Direct as of 3/12/2014): \$40.7 million
- Moving out NEPA horizon overlapping other project tasks, with NEPA funding change requested (proposing an additional approx. \$40M for NEPA and preliminary engineering for next 2 years)

### Activities:

#### Last 30 days

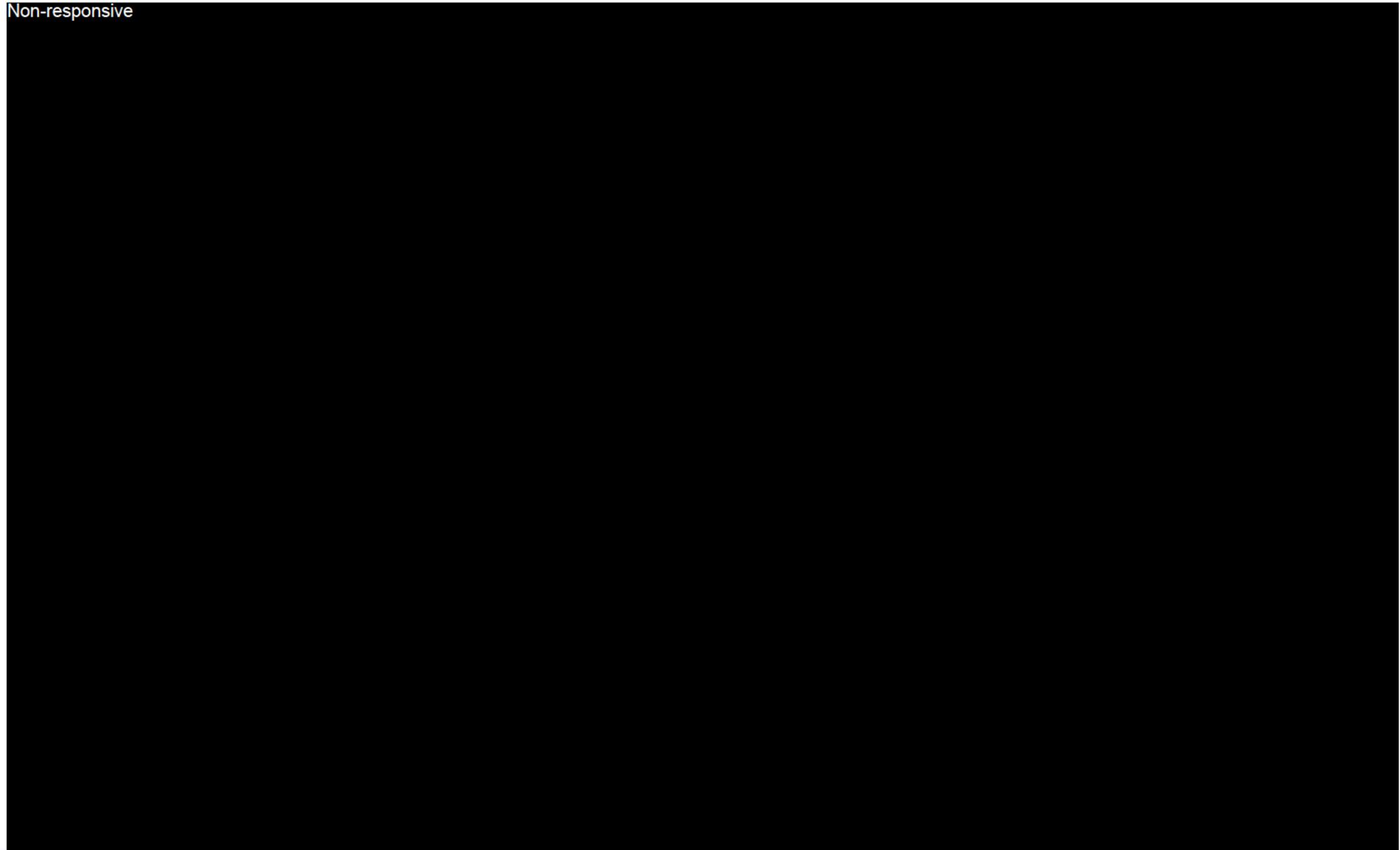
- Team continued reviewing comments on Draft EIS and drafting responses.
- Siting team worked with land owners to consider route adjustments
- Field work continued to be mostly on hold while agency explores best way forward- Permission to Enter Property agreements require insurance and unlimited indemnification language in our contracts with contracted employees, firms, and their subcontractors.
- Team met with Administrator on 3/14/14

#### Next 30 days

- Requesting moving out NEPA horizon and additional time and funding for NEPA and preliminary engineering (no change in overall project cost)
- Planning working on updated load forecasts and studies for electrical need date, now Spring 2021
- Non-wires team developing measures to be available for pushing out need date, goal of availability 2019
- Continue work on DEIS comments
- Continue work with landowners and adjusting tower and road locations
- Agency continues discussing how to handle indemnification

# Pacific Direct Current Intertie Upgrade

Non-responsive





## Department of Energy

Bonneville Power Administration  
P.O. Box 3621  
Portland, Oregon 97208-3621

FREEDOM OF INFORMATION ACT/PRIVACY PROGRAM

June 4, 2014

In reply refer to: D-B1

Richard van Dijk  
Another Way BPA  
Ex 6

### FOIA #BPA-2014-00719-F

Dear Mr. van Dijk:

In reviewing our earlier response to your request for records that you made to the Bonneville Power Administration (BPA), under the Freedom of Information Act, 5 U.S.C. 552, where you requested:

“copies of all documents from the Transmission Management Committee (TMC) meetings that reference or relate to: Big Eddy-Knight, Central Ferry-Lower Monumental, I-5 Reinforcement Transmission projects and Network Open Season. The date range requested is from March 2013 through March 2014;”

BPA has determined that one document was withheld under Exemption 5 of the FOIA in error.

BPA is releasing it in its entirety.

I appreciate the opportunity to assist you. If you have any questions about this letter, please contact Kim Winn, FOIA Public Liaison, at 503-230-5273.

Sincerely,

*/s/Christina J. Munro*  
Christina J. Munro  
Freedom of Information/Privacy Act Officer

Enclosure: Responsive document

# Typical Power Flows

(winter and summer flows vary depending on generation and load patterns)

