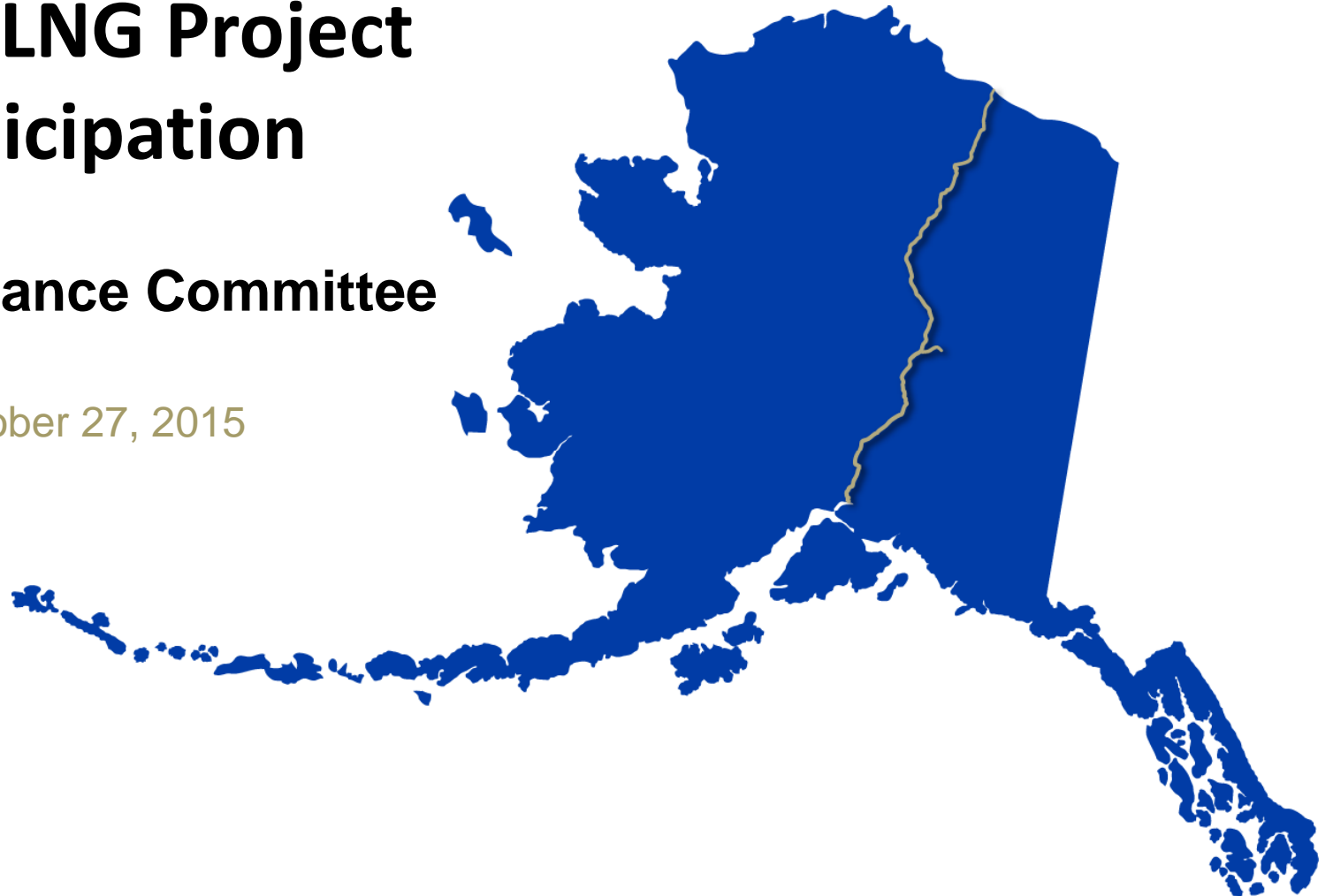




Alaska LNG Project Participation

House Finance Committee

October 27, 2015



Authority Granted in SB 138

- AGDC has primary responsibility for developing an Alaska LNG project on the state's behalf [AS 31.25.005 (1)]
- AGDC may acquire a direct ownership interest in any component of an Alaska LNG project [AS 31.25.080 (a)(23)]
- AGDC may enter into contracts related to treating, transporting, liquefying or marketing gas - *in consultation with DNR & DOR* [AS 31.25.080 (a)(24)]
- AGDC shall assist DNR & DOR to [AS 31.24.005 (2) & (3)]:
 - Maximize the value of the state's gas resources
 - Provide economic benefits in the state
 - Provide revenue to the state

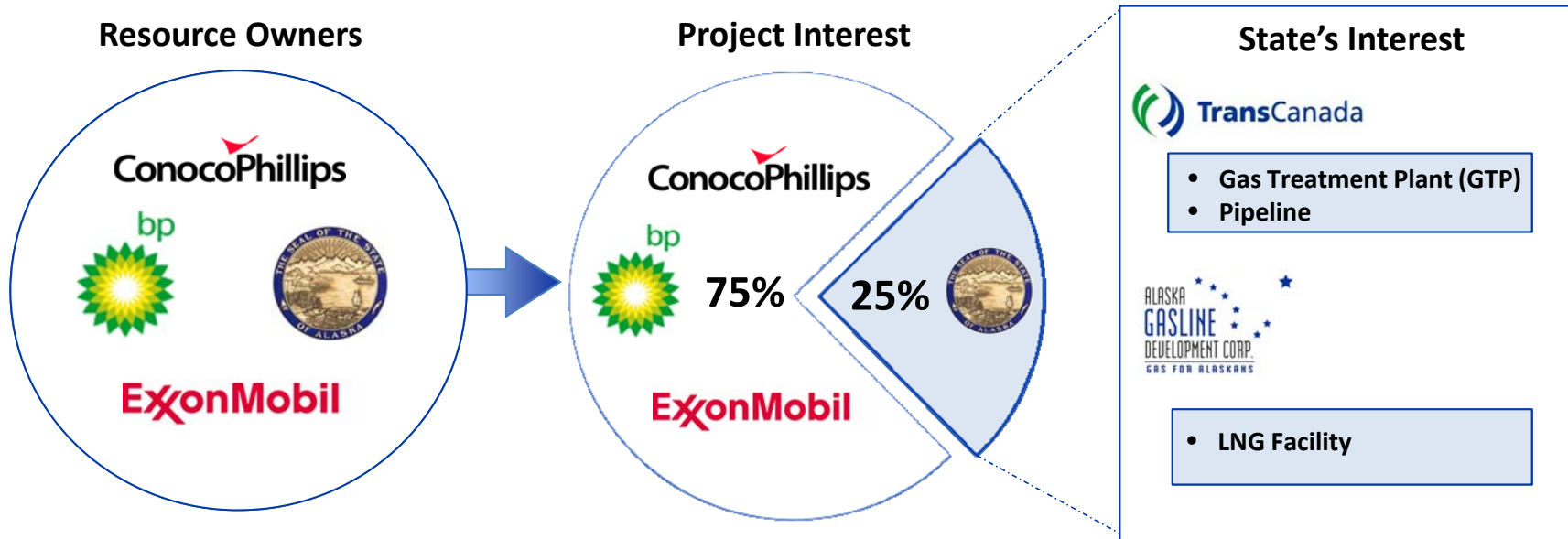


AGDC's Role in Alaska LNG

- Signatory to the Joint Venture Agreement governing the Alaska LNG project
- Hold the state's 25% equity interest in the LNG facility (downstream component) of the integrated project
- Member of the Sponsor Group, Management Committee (ManCom) and the Project Steering Committee (PSC)
- Participate in integrated project decisions
- Participate in commercial negotiations related to marketing, expansion, third-party access and domestic gas supply
- Plan and develop off-takes for in-state gas deliveries



Alaska LNG Project Participation



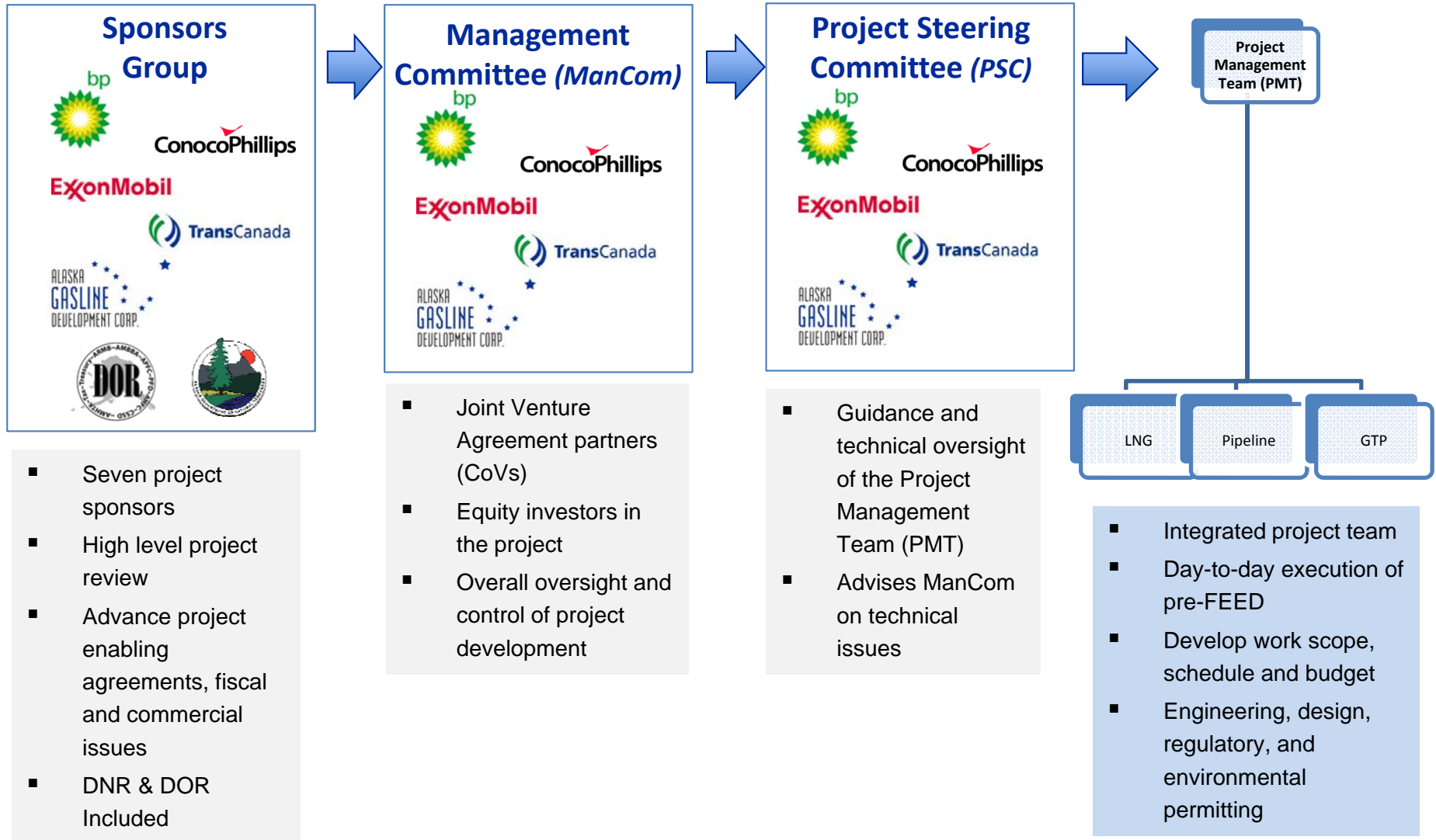
- AGDC holds State's interest in downstream: LNG Facility
- TransCanada holds State's interest in mid-stream: Pipeline & GTP

Governance Related Issues

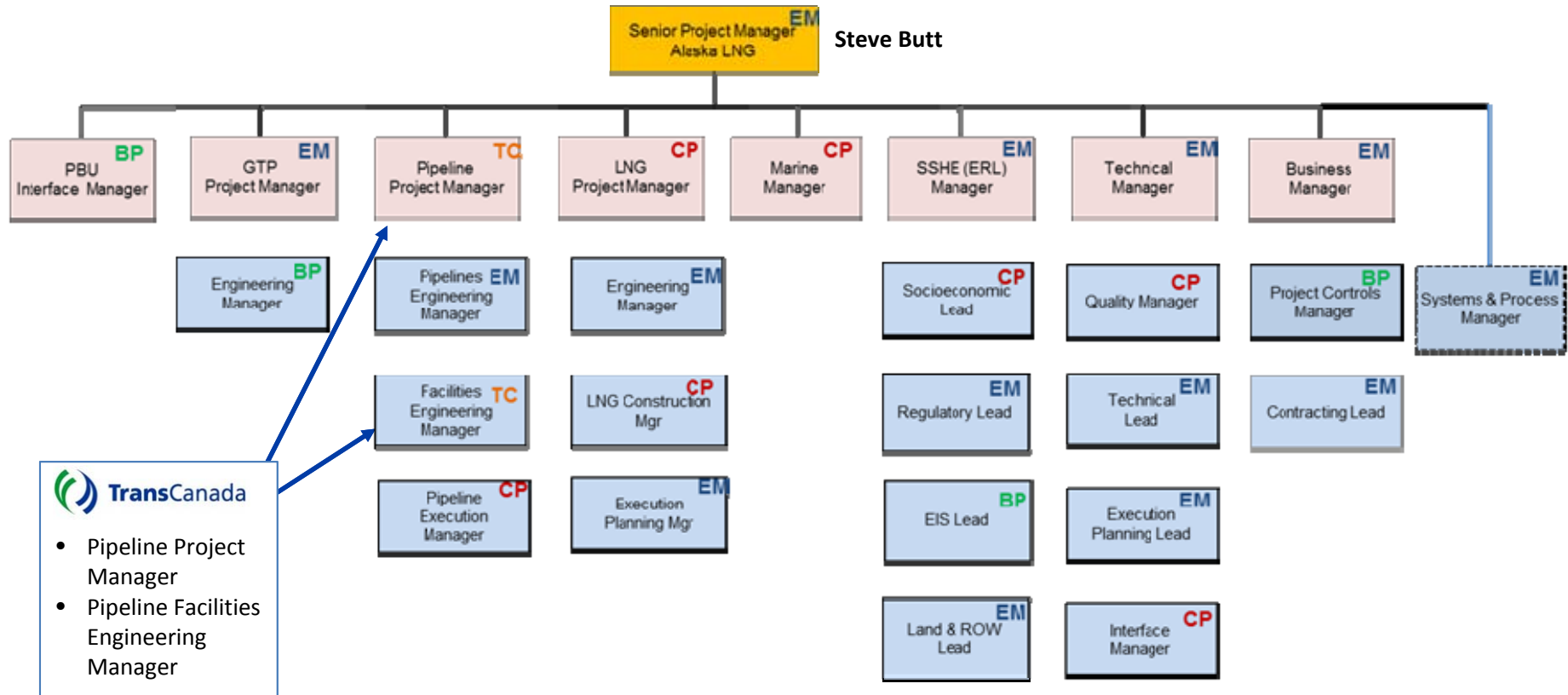
- **Equity Alignment:** State's share of gas in the project (25%) is not equal to its current equity in the integrated project:
 - State, through AGDC, holds 25% in the downstream (LNG plant)
 - TC holds 25% in the midstream (pipeline & GTP)
 - State's resulting equity in the integrated project is ~ 12.5%

- **Voting Rights:** State doesn't have full voting participation in all project decisions:
 - State, through AGDC, votes on downstream issues
 - TC votes on mid-stream issues
 - If TC exits, AGDC would have full voting rights on each project component and in all integrated project decisions

Project Governance



Project Management Team (PMT)



TransCanada currently has two individuals in the leadership structure of the PMT



Project Management Team (PMT)

- Project Management Team (PMT) created by Alaska LNG co-venture partners (CoVs) to lead day-to-day project development
- PMT is lead by ExxonMobil's Steve Butt and staffed with other CoV employees who have been seconded to the project
- CoVs nominate employees based on skills and experience
 - PMT evaluates nominees and Management Committee approves
 - Positions are filled using a “best player plays” approach
 - Seconded's salary and expenses covered by project
- AGDC is active at all governance levels – Sponsors, ManCom and PSC
- AGDC does not currently have employees seconded to PMT
- PMT hires engineering and specialist contractors to advance design efforts
 - Vast majority of project work is done by contractors under the supervision of the PMT

Project Management Team (PMT)

Staffing Principles

- Leverage existing company strengths - ensure “right person, right job” or “best player plays”
- Joint Venture Agreement (JVA) parties can nominate employees for any position
- Ensure all parties are represented at leadership levels
- Locate teams for maximum effectiveness; co-located with major contractors where appropriate
- Appointments to leadership roles require unanimous approval of the parties

Project Secondees	EM	CP	TC	BP	Total
Leadership Team <i>Senior Project Manager and direct reports</i>	5	2	1	1	9
Key Positions	10	4	1	3	18
Other Positions	73	20	10	5	108
Total	88	26	12	9	135

TransCanada's Role Alaska LNG

- Hold the state's 25% interest in the project's mid-stream: pipeline and gas treatment plant (GTP)
- Fund pre-FEED cash calls associated with the state's mid-stream interest
- 12 secondees, primarily pipeline Subject Matter Experts (SME), in the Project Management Team
 - Leadership team, Pipeline Project Manager (1 of 9)
 - Key role, Pipeline Facilities Engineering Manager (1 of 18)
 - Environmental, Regulatory, & Land (ERL) (1 of 32)
 - Gas Treatment Plant sub-project (1 of 17)
 - Pipeline sub-project (8 of 36)

TransCanada's Role Alaska LNG

- TransCanada (TC) is not expected to build the pipeline, that will be managed by the PMT
- If TC exits the project, the PMT will seek nominations for the vacated positions
- TC has offered to allow its PMT employees to remain during a transition period
- All CoVs, including AGDC, can nominate employees to fill those positions
- AGDC has individuals qualified to nominate for Pipeline and GTP openings

AGDC Technical Team - Skills

AGDC's technical staff:

- Senior credentialed professionals with industry and mega-project backgrounds
- Arctic pipeline and facilities design, construction, and operations experience
- Alaska-specific design and construction experience
- Major capital project management expertise
- Working knowledge of technical and regulatory assets owned by AGDC

AGDC Technical Team - Results

AGDC completed development of the Alaska Stand Alone Pipeline (ASAP) Project:

- Completed Pre-FEED and FEED for North Slope gas treatment facility, 733-mile mainline, and 30-mile Fairbanks lateral pipeline
- Completed Class 3 cost estimate and project execution plan
- Delivered on time and under budget
- Core technical team still engaged on an interim basis pending state policy decisions

AGDC Ability to Assume TC's Role

- Currently holds state's interest in LNG facility – a complex and expensive component in the integrated project
- Already assumed TC's role in coordinating the FERC NEPA process
- Engaging on mid-stream technical issues currently
- Technical staff available to fill PMT positions as necessary:
 - Subject Matter Experts (SME) based in Alaska
 - Key roles in prior Alaska pipeline projects, including TAPS
 - Dedicated professionals committed to SOA interests

Alaska LNG Appropriations To Date

(\$ thousands)	<u>Appropriated</u> <u>FY14-FY15</u>	<u>FY14-FY16</u> <u>Spending</u>	<u>Difference</u>
SB138 to AKLNG Fund	\$69,835		
RSA to Department of Revenue	(\$2,500)	(\$2,500)	\$0
RSA to Department of Transportation	(\$70)	(\$70)	\$0
AKLNG Project Cash Calls	(\$57,850)	(\$51,382)	\$6,468
AGDC Operating	(\$3,406)	(\$4,396)	(\$990)
External Contractual Services	(\$6,008)	(\$5,235)	\$773
Reimbursement Due From AKLNG Project		\$2,750	\$2,750
Additional Contractual Work for TC Pickup		(\$5,900)	(\$5,900)
	\$0	(\$66,733)	\$3,101**
			(\$2,801)

** Funding available for the AGDC's Alaska LNG participation operating budget component to begin FY17 work

AGDC Special Session Appropriations

Capital Appropriation (\$144,045.0)

- \$68,445.0 – Reimburse TransCanada and “buy-out” their mid-stream interest
- \$75,600.0 – Fund state’s full 25% share of remaining pre-FEED

Receipt Authority (\$5,000.0): Statutory Designated Program Receipts (SDPR)

- Allow AGDC to be reimbursed for Alaska LNG related field work conducted on behalf of the project

AGDC Special Session Appropriations

	Expectation Before 2016 WP&B	W/New Pre-FEED Scope & Budget Change
TC Buyout	\$ 68.4	\$ 68.4
Pick-Up Remaining Cash Calls	\$ 29.6	\$ 29.6
Allowance for Mid-Stream Scope Changes	\$ 8.8	\$ 31.0
	\$ 38.4	\$ 60.6
	\$ 106.8	\$ 129.0
Allowance for DownStream Scope Changes	\$ -	\$ 15.0
	\$ 106.8	\$ 144.0

TC Buyout
 \$46.9 - Cash Calls thru 2015
 \$21.5 - Development & Carrying Costs
 \$68.4 - Total Reimbursement & Buyout

Cash Calls 2016 to Pre-FEED Conclusion
 \$31 - Go Forward Midstream (Pipe/GTP)

\$15 - Go Forward Downstream (LNG)

30% contingency on \$29.6 pick-up

Pre-FEED Scope & Budget Changes

Pre-FEED scope and schedule will increase by \$182 million to \$694 million:

- State's total share is \$173 million -- \$66 million liquefaction plant, \$107 million mid-stream (GTP and pipe)
- Advancing work into pre-FEED is important to have the best information available to complete internal review and make FEED decision
- Project is maturing through the stage-gate development process
- Moving some activities from FEED to Pre-FEED to facilitate better design and decision making

Pre-FEED Scope & Budget Changes

Scope changes are designed to improve project economics, permitting outcomes and the quality of information available for FEED evaluation:

- Component level optimization to lower capital costs and improve project economics (\$57 million)
- Increase scope of geotechnical and geohazard work at GTP and LNG sites (\$29 million)
- Increase regulatory and pre-bid work on FEED contracting; complete weather delayed off-shore field work (\$66 million)
- Bring 48” pipe deliverables up to 42” level of development (\$30 million)

Questions?

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