

EXHIBIT NO. ___(MJV-20)
DOCKET NO. UE-121697/UG-121705
DOCKET NO. UE-130137/UG-130138
WITNESS: DR. MICHAEL J. VILBERT

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY, INC.,

Respondent.

DOCKET NOS. UE-121697
and UG-121705 (*consolidated*)

WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY, INC.,

Respondent.

DOCKET NOS. UE-130137
and UG-130138 (*consolidated*)

**SECOND EXHIBIT (NONCONFIDENTIAL) TO THE
PREFILED REBUTTAL TESTIMONY OF DR. MICHAEL J. VILBERT
ON BEHALF OF PUGET SOUND ENERGY, INC.**

DECEMBER 19, 2014

The Brattle Group - Development of Decoupling Studies for the Natural Gas LDC and Electric Utility Industries

	Methodology for Estimating the Cost of Equity	Indicator Variables for Company and Time Period Fixed Effects	Scenarios Exploring if Capital Markets Anticipated Decoupling	Method to Estimate the Standard Errors	Regression Software
Gas LDC Industry Study					
Published Brattle Report - Amended July 2012, Original March 2011	Multi-stage DCF (MS-DCF)	Company and Period Variable for Date of each filing	None, date is month of commission decision	Newey West standard errors	STATA
Updated for the Puget filing in WUTC Docket No. UE-121697 and UG-130138 - October 2014	Multi-stage DCF (MS-DCF)	Company and Period Variable for Date of each filing	None, date is month of commission decision	Clustered standard errors	STATA
Electric Utility Industry Study					
Published Brattle Report - March 2014	SS-DCF	Company and Period Variable for each quarter of study periods	4 scenarios: base case using same Q as decision, then test lead effect by 1Q, 2Q, or 3Q uniformly for every decoupled subsidiary	Clustered standard errors	STATA
Updated for the Puget filing in WUTC Docket No. UE-121697 and UG-130138 - October 2014	MS-DCF	Company Epoch Variables for periods between major changes and Period Variable for each quarter	None, date is month of commission decision	Clustered standard errors	R software

Sources: Documents and Answers to Data Requests in the Docket