**JUSTIFICATION MATRIX - NAVIGATION SURVEY**

The navigation survey for the Columbia River System Operation Environmental Impact Statement (CRSO-EIS) effort contains similarities to previous survey efforts conducted by USACE and Washington State University. The justification table below relates the questions in the current study to questions in either the Lock Closure Shipper Survey or the Shipper Survey which were approved under the previous OMB Guidance (0710-0001). These surveys along with the current survey are included in the Survey Justification Package.

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| **Survey Question Number** | **Survey Topic Area** | **Similar Question / Survey Covered Under Previous OMB clearance (0710-0001)** | **Notes** |
| **SHIPMENT INFORMATION** | | | |
| 1 | Primary Commodity | Cover Page / Lock Closure Shipper Survey | Standard question to ask shippers about commodities moving through facilities. Necessary to estimate impacts by commodity types and likely affected industries. |
| 2 | Facility Capability Information | Cover Page/ Lock Closure Shipper Survey | Standard question to ask shipper about commodities moving within facility. Necessary to estimate impact by commodity types and likely affected industries. |
| **LAST FREIGHT SHIPMENT** | | | |
| 3 | Commodity | Q3 & Q4 / Lock Closure Shipper Survey | Standard question to ask shippers about commodities moving through facility. Necessary to estimate impacts by commodity types and likely affected industries. |
| 4 | Destination | Q3 & Q4 / Lock Closure Shipper Survey | Standard question to ask shippers about commodities moving through facility. Necessary to estimate impacts by commodity types and likely affected industries. |
| 5 | Size of Shipment | Q3 & Q4 / Lock Closure Shipper Survey | Standard question to ask shippers about commodities moving through facility. Necessary to estimate impacts by commodity types and likely affected industries. |
| 6 | Method of Transportation | Q2 / Lock Closure Shipper Survey | Standard question to ask shippers about commodities moving through facility. Necessary to estimate impacts by commodity types and likely affected industries. |
| 7 | Estimated time |  | Not specifically asked in either of the previous surveys, but could be calculated from origin and destination information provided in previous surveys. |
| 8 | Price Received | Q4 / Lock Closure Shipper Survey | Standard question to ask shippers about commodities moving through facility. Necessary to estimate impacts by commodity types and likely affected industries. |
| **SHIPPING ALTERNATIVES** | | | |
| 9 | Behavior if waterway is closed | Q2 / Lock Closure Shipper Survey | Standard question to ask to determine option shippers will choose due to changes in waterway. |
| **FIRST (BEST) SHIPPING ALTERNATIVE** | | | |
| 10 | Destination of Alternative | Q2/ Lock Closure Shipper Survey | Standard question to ask to understand the option shippers will choose due to changes in waterway. |
| 11 | Type of Destination | Q2/ Lock Closure Shipper Survey | Standard question to ask to understand option shippers will choose due to changes in waterway. |
| 12 | Characteristics of Other Transport Options | Q2/ Lock Closure Shipper Survey | Standard question to ask to understand option the shippers will choose due to changes in waterway. |
| 13 | Transit Time for Alternative |  | Not specifically asked in either of the previous surveys, but could be calculated from origin and destination information provided in previous surveys. |
| 14 | Reliability of Transportation Mode |  | Not specifically asked in either of the previous surveys, but is variation of lock closure question. |
| 15 | Size of Shipment | Q4/ Lock Closure Shipper Survey |  |
| 16 | Price Received | Q4/ Lock Closure Shipper Survey |  |
| **OTHER SHIPPING ALTERNATIVE** | | | |
| 17 | Destination of Alternatives | Q2/ Lock Closure Shipper Survey | Standard question to ask to understand the option shippers will choose due to changes in waterway. |
| 18 | Type of Destination | Q2/ Lock Closure Shipper Survey | Standard question to ask to understand the option shippers will choose due to changes in waterway. |
| 19 | Characteristics of Other Transport Options | Q2/ Lock Closure Shipper Survey | Standard question to ask to understand the option shippers will choose due to changes in waterway. |
| 20 | Transit Time for Alternative |  | Not specifically asked in either of the previous surveys, but could be calculated from origin and destination information provided in previous surveys. |
| 21 | Size of Shipment | Q4/ Lock Closure Shipper Survey |  |
| 22 | Price Received | Q4/ Lock Closure Shipper Survey |  |
| **BEST SHIPPING ALTERNATIVE** | | | |
| 23 | Preferred Alternative | Q2/ Lock Closure Shipper Survey | Standard question to ask to understand the option shippers will choose due to changes in waterway. |
| **TRANSPORTATION RATES** | | | |
| 24 | Choice if Change in Transportation Rate |  | Not specifically in previous approved surveys, but a standard question to arrive at price elasticity of waterway transportation. |
| **TRANSIT TIME** | | | |
| 25 | Choice if Change in Transit Time |  | Not specifically in previous approved surveys, but a standard question to arrive at price elasticity of waterway transportation. |
| **VOLUME** | | | |
| 26 | Would Volume Change if Transportation Rate Changed |  | Not specifically in previous approved surveys, but a standard question to arrive at price elasticity of waterway transportation. |
| **SHIPPER CHARACTERISTICS** | | | |
| 27 | Age of Facility | Q1/ Shipper Survey |  |
| 28 | Size of Facility | Q1/ Shipper Survey |  |
| 29 | Timing of Main Shipments | Q3/ Shipper Survey |  |
| 30 | Import or Export Business |  | Not specifically asked in either of the previous surveys, but important for the region since many commodities on the waterway travel to/from a deep draft port for export/import. |
| 31 | Number of Facilities Within Group | Q1/ Shipper Survey |  |
| 32 | Number of Facilities Owned / Operated | Q1 / Shipper Survey |  |
| 33 | Number of Employees | Not asked for in either surveys | Previous survey efforts did not focus on regional economic impact (i.e. Regional Economic Development account value). EIS requires understanding of potential RED impacts. |
| 34 | Contact for Follow Up | Cover Page / Shipper Survey |  |
| 35 | Asking if Survey Summary is wanted |  | This question is included to increase response rates with the incentive of a summary of the responses. |