



360.431.8653

1403 18th Avenue • Longview, WA 98632

lindship@gmail.com • www.lindship.com

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Via Email and U. S. Postal Service

To: United States Army Corps of Engineers
Washington State Department of Ecology
Cowlitz County, WA

Subj: Scoping Comments: Millennium Coal Export Terminal, Longview, WA

Panamax Voyage Pro Forma – Coal shipments

The attached vessel pro forma considers chartering a Panamax vessel to carry 60,000 MT of coal round trip between Longview, WA and Guangzhou, China. The vessel will wait berth at Columbia River anchorage for 2 days and take .5 days to load at the coal terminal. The vessel will load to a draft of 43' and sail 5,852 nm to Guangzhou. Total days in the Columbia River estimated to be 3.0 which includes steaming time of .5 days, 2 days waiting berth and .5 days to load. The laden voyage will take 18.61 days and the anchorage waiting berth and off loading of the vessel is estimated to take 4 days in China. Total voyage time 43.73 days. Weather during the voyage is taken into consideration by lowering the speed by 7% from 14 knots service speed to 13.1 knots.

The following is taken from the attached spreadsheet voyage pro forma.

ONE Voyage with 60,000 tons of coal

Total fuel consumed:	1,136.9 MT
Total cost of fuel:	\$ 688,604
Total CO2 Emissions:	3,604.1 MT
(CO2 Columbia River):	(70.5 MT)
Total Voyage Cost:	\$ 1,470,679
Cost per metric ton	\$24.51

733 Voyages 44 million tons of coal (One Year)

Total fuel consumed:	833,347.7 MT
Total cost of fuel:	\$ 504,746,732
Total CO2 emissions:	2,641,712 MT
(CO2 Columbia River):	(56,400 MT) 2% of total voyage emissions
Total Voyage Cost:	\$1,078,008,000.

Note 1: CO2 formula is vessel's fuel consumption in metric tons times 3.17

Note 2: Pro Forma detail per attached spreadsheet

Note 3: Source data October/November 2013 from Bunkerworld, Netpas, Dry Ships, Baltic Exchange Index, Marine Traffic, Westshore Coal Terminal, BC dockage tariff, Vessel Agency Portland, OR, Port of Longview tariff, and guidance from marine surveyors

Note 4: Note while the vessel is capable of a draft of 13.95 meters or 45'9", the Columbia River channel depth limits the vessel to 43'. 60,000 tons of coal on board is a reasonable average estimate and therefore 44 million tons of coal shipped annually would take 733 Panamax vessels.

My concerns and comments for the EIS are as follows:

1. What are the impacts of 733 Panamax class vessels navigating in and out of the Columbia River each year? 4 Panamax coal vessels per day navigating the river.
2. Are the CO2 emissions, total for the annual voyages, and emissions in the River airshed significant and if so what are the annual impacts to global warming and to local air quality and health?
3. What are the effects of 733 Panamax vessels sailing in and out of the Columbia River to the North and South jetties, the shorelines of the river and Puget Island? Will maintenance dredging be increased due to the additional deep draft vessels? What is the additional cost and impact to the Corp's annual budget?
4. What is the impact of these vessels to fisheries and water quality?
5. What is the impact to safe navigation on the River, including the presence of recreational boating and fishermen?
6. Are there enough anchorage locations to handle the additional (new) traffic?

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7. Will additional emergency and response services need to be put into place in the event of accidents due to grounding, fire, oil spills and collision?
8. Should there be mandatory (additional) tug/towboat and fireboat services on the Columbia River particularly at the mouth in the event of a vessel(s) emergency?
9. As regards the coal export terminal, what procedures will be put in place by the export terminal to prevent spillage of coal into the river during loading of the vessel?
10. Did the Columbia River Bar and River Pilots provide information during the scoping process? Did the Steamship Operators Association of the Columbia River provide comment during the scoping process including impacts to pilotage and requirements for more pilots?

Thank you for your consideration of my comments for this very important EIS process.

Sincerely,

Gary Lindstrom
Owner
LINDSHIP Maritime Services
Longview, WA

