



**Washington State  
Department of Transportation**

Lynn Peterson  
Secretary of Transportation

WSDOT Ferries Division (WSF)  
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David H. Moseley  
Assistant Secretary for  
Washington State Ferries

November 18, 2013

Captain Scott Ferguson  
Commander, USCG Sector Puget Sound  
1519 Alaskan Way South  
Seattle WA 98134-1192

**RE: Letter of Intent (LOI) Regarding Washington State Ferries' (WSF)  
Proposal to Convert the Issaquah Class Ferries to Liquefied Natural Gas (LNG)  
Fuel Propulsion**

WSF is submitting this Letter of Intent outlining our proposal to convert six Issaquah class ferries to LNG propulsion and the documentation required for a Waterway Suitability Assessment (WSA) in accordance with the guidelines contained in 33 CFR127.

This LOI is formatted in accordance with 33 Code of Federal Regulations 127.007(c);

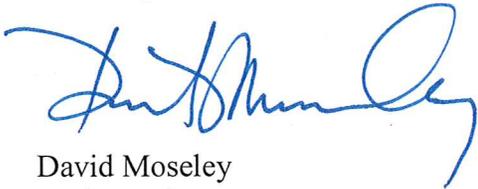
1. Owner and Operator: Washington State Ferries, 2901 3<sup>rd</sup> Ave. Seattle WA 98121, telephone 206-515-3905
2. Name of Federal, State, or local having jurisdiction: U.S. Coast Guard Sector Puget Sound 1519 Alaskan Way South Seattle WA 98134-1192, telephone 206-217-6200
3. Vessels and Terminals intended for LNG operations:
  - a. Six Issaquah class ferries:
    - i. M/V Issaquah
    - ii. M/V Kittitas
    - iii. M/V Chelan
    - iv. M/V Kitsap
    - v. M/V Cathlamet
    - vi. M/V Sealth
  - b. Terminals from which these six vessels will operate:
    - i. Anacortes: Lat 48° 30' 26" N Long 122° 40' 30" W
    - ii. Clinton: Lat 48° 58' 30" N Long 122° 21' 11" W
    - iii. Kingston: Lat 47° 47' 36" N Long 122° 24' 44" W
    - iv. Bremerton: Lat 47° 33' 44" N Long 122° 37' 11" W
    - v. Southworth: Lat 47° 30' 46" N Long 122° 29' 42" W
4. LNG tanks will be located on the upper deck of the Issaquah Class ferries, which and will not accessible to passengers. These two skid mounted tanks will be located on either side of the existing exhaust stacks. The tanks will have an integrated assembly with a cold box and control system to control bunkering and vaporization of the LNG to gas for use in the engines. The

tanks will be manufactured using the same technology used in over the road LNG truck trailers. The capacity of each tank will be 100 m3 (26,000 gal), resulting in a total capacity of 200 m3 (52,000 gal). LNG will be transported to the vessels by dedicated over the road tractor trailers that carry 10,000 gallons of LNG. Each vessel will require fueling by two trucks once every seven to ten days. A complete description of the operation can be found in Attachments (2) through (5).

5. A complete description of the proposed routes (with maps) for ferries fueled by LNG, with descriptions of the commercial, industrial, environmentally sensitive and residential areas adjacent to those routes can be found in Attachment (6) of the WSA documentation.

Additionally, attached are the Security Assessment and a proposed LNG Operations Manual. If you have questions regarding this LOI or the attached WSA documentation please contact Mr. Darnell Baldinelli, Safety Systems Manager, at 206-515-3905 or [baldind@wsdot.wa.gov](mailto:baldind@wsdot.wa.gov)

Sincerely,



David Moseley  
Assistant Secretary  
Washington State Department of Transportation, Ferries Division

- Attachments: (1) Executive Summary of Washington State Ferries' Liquefied Natural Gas (LNG) Project  
(2) Safety and Navigational Risk Assessment for LNG-Fueled Passenger Ferry Vessels  
(3) Appendix 1, Safety Risk Assessment Study Basis  
(4) Appendix 2, Navigational Risk HAZID Workshop  
(5) Appendix 3, Safety Risk HAZID Workshop  
(6) Appendix 4, Descriptions of Ferry Routes and Terminals  
(7) Security Assessment for LNG Fueled Passenger Ferry Vessels  
(8) LNG Operations Manual