

2011 Maritime Emission Inventory

Meeting called by: Port of Tacoma **Note taker:** Matoya Darby

Facilitator: Ron Stuart

Attendees:

Stephanie Jones-Stebbins, Ellen Watson, Jordan Royer, Frank Holmes, Sarah Flagg, Frank Van Haren, Bruce Anderson, Brandon Whitaker, Stacy Patterson, Carole Cenci, Joanne Snarski, Sheila Helgath, Joe Ray, Sam Wells, Rose Muller, Ron Stuart, Cindy Lin, Tina Stotz, Beth Carper, Matoya Darby

Minutes

Agenda item: Review Task A of the RFP: Starcrest Consulting's Summary of Methodology and Recommendations

Discussion: Walk through of 2005- OGV, Harborcraft/Rail

- Propose to keep geographic domain of the inventory the same
- **OGV:** recommend using the same plan as 2005 for easier comparison; same plan is used at other west coast ports as well as east coast ports; can request live feed of data from the Coast Guard for free; 2005 AIS data was available (but corrupt due to building flood) for comparison through the Coast Guard. No problem getting AIS data in 2011, the question is the quality of data and whether it can be converted into the inventory. Starcrest also has an AIS antenna that is collecting data from Olympia to Port Townsend. Since last inventory not much has changed with an exception of AIS, recommend routing method for now. Marine Exchange data will come from Captain Moore (PMSA).
- **Vessel Boarding:** done to gather operational data in the Puget Sound. Recommendation on Vessel boarding should be limited and target those vessels we are not going to gather data on at other locations (LA/LB). Have some information on like vessels through sister ship information gathering. Also recommend updating load profiles for the vessels based on mode and vessel class based on the entire data set after it has been updated end 2nd qtr of 2011 (after LA/LB inventory complete). Some operational changes have been made. Noted some changes in OGV emission factors made in LA/LB inventory based on vessel boarding information. Discovered boilers may be now turned on and off during transit depending on main engine RPM's, Generally boilers are not needed while ships are in transit unless the ships slow. Correction can be made based on engine loads. Also discussions about engine load factors. Talking to engine manufactures and information for group discussion to be available mid 2011. If CARB and EPA Region 9 adopts, can brief region 10 for comments.
- **Tanker improvement program** LA/LB project may also be of benefit PSEI by tanker emission estimate improvement. Finished mid part 2011. Will discuss with group for use or inclusion after completion of that study.
- **Coordination with Canadian OGV** Should contact PMV and for Canadian AEI update – see if rules for accounting vessel crossing the border have changed so we do not double count. Bruce to send 2005 rules to Ron for discussion with PMV.
- **Marine Exchange Data** John Venture is aware of the need and is expecting our request
- **MAN Slide Valves** – Discussion of MAN engine fuel injection valve emissions reduction. LA/LB is discussing inclusion or exclusion. Group can also discuss. Will inform group on LA/LB decision.
- **Harborcraft:** No major change in methodology and include Tier II engine emissions factors. More Tier II in use since 2005. Look at same vessel types as 2005. 2005 inventory included section on recreational vessels the information received was not very specific. Suggest collecting information about economic decline effect – usage or slip vacancy as compared to 2005 and make correction to 2005 data.. Another option of checking

boat registrations. Another option to leave out of the 2011 inventory with an explanation as to why or use 2005 numbers as a placeholder or to say there has not been significant changes. Carole to form a harborcraft workgroup to give Starcrest a recommendation on recreational vessels.

- **Rail:** Expect to use same methodology and information sources but use newer emission rates produced by the EPA. Suggest using newer fleet average emission factors. Should be simple to compare to earlier emission factors. In 2005 some CHE operation data for railyards was included in rail sector. Suggest keeping railyard CHE in CHE sector. Ron to create a rail workgroup to recommend and comment on methodology. Suggest to include Ports, BN, UP, Louie dreyfus, Tacoma Rail, Pac Rail.
- **HDV and LDV onroad and offroad** Most everyone is using Moves model. Ron will discuss with agencies for model preference Mobile 6 or Moves. PSRC is generally the source of regional data or trip demand data. Some 2005 information came from Port of Seattle Planning department. Both Port of Seattle and Tacoma will solicited assistance from their planning departments.
- **Report 2005 and 2011 comparability.** Port of Tacoma will discuss options with Starcrest and make a recommendation to the group.

Conclusions:

Action items	Person responsible	Deadline
✓ Create Harbor craft workgroup	Carole Cenci	Ongoing
✓ Create Rail workgroup	Ron Stuart	Ongoing
✓ Group review of Task A	Group	12/9
✓ Consensus on HDV and LDV Model	Ron Stuart	12/10
✓ Recommendation on 2005 and 2011 report comparison	Port of Tacoma	Early 2011