|  |
| --- |
| **UN/SCETDG/50/INF.34** |
|  |

|  |  |
| --- | --- |
| **Committee of Experts on the Transport of Dangerous Goods  and on the Globally Harmonized System of Classification and Labelling of Chemicals 22 November 2016** | |
| **Sub-Committee of Experts on the Transport of Dangerous Goods** |  |
| **Fiftieth session** |  |
| Geneva, 28 November–6 December 2016  Item 6 of the provisional agenda  **New proposals for amendments to the Model Regulations  on the Transport of Dangerous Goods** |  |

Supplemental Data to Support 2016/79 (Lead lining testing requirements for bromine portable tanks)

Transmitted by the Expert from the United States of America

Summary

1. The attached provides a summary of data reviewed to support the proposal in ST/SG/AC.10/C.3/2016/79 for a three month authorization to transport portable tanks after emptying but before cleaning for purposes of performing the lead lining inspection required by portable tank special provision TP 10. As noted in 2016/79, annual inspection reports covering a 5 year period were obtained for 10 tanks in dedicated bromine service, and a further 5 lead lining inspection reports were obtained for tanks in dedicated bromine service that had been inspected after a year but no more than 15 months after the date of the last inspection. Each of these reports contains test results on the lead liner giving at least 67, but up to 1164, separate readings of lead lining thickness. An analysis of the data provided revealed that for the 10 portable tanks inspected within the one year period, the percentage of readings falling below 5 mm was less than 2%. For the 5 tanks that were inspected between 12 months but before 15 months the percentage or readings falling below 5 mm was less than 1%. It should be noted that for the few readings that were below 5 mm, the majority were above 4 mm and no readings were below 2 mm.

**Summary of Safety Data Reviewed**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tanks tested within 1 year inspection period** | | | | |
| Tank Number/Year of inspection | Total # of readings | # of readings below 5 mm | Readings below 5 mm | Location if known |
| **Tank A** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 448 | 0 |  |  |
| 2015 | 448 | 0 |  |  |
| 2014 N/A |  |  |  |  |
| 2013 | 67 | 0 |  |  |
| 2012 | 67 | 1 | 4.79 | Manlid |
| 2011 | 67 | 1 | 4.91 | Manlid |
|  |  |  |  |  |
| **Tank B** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 851 | 32 | 4.87,4.75, 4.19, 4.29, 4.65, 4.65, 4.19, 3.02, 2.37, 3.05, 3.25, 3.0, 4.22, 3.96, 4.4, 4.85, 4.06, 3.94, 4.75, 3.33,4.06, 4.7,4.4, 4.55, 2.34, 3.61, 4.62, 4.22, 4.98, 4.93, 4.3, 4.98 |  |
| 2015 N/A |  |  |  |  |
| 2014 | 68 | 0 |  |  |
| 2013 | 68 | 2 | 3.81, 4.49 | Manway & Manlid |
| 2012 | 68 | 0 |  |  |
| 2011 | 68 | 0 |  |  |
|  |  |  |  |  |
| **Tank C** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 686 | 6 | 4.8, 4.83, 4.88, 4.8, 4.95 | One in shell rest in Manway and Manlid |
| 2015 N/A |  |  |  |  |
| 2014 | 67 | 2 | 4.31, 4.37 | Manway and Manlid |
| 2013 | 67 | 0 |  |  |
| 2012 | 67 | 0 |  |  |
| 2011 | 67 | 0 |  |  |
|  |  |  |  |  |
| **Tank D** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 702 | 28 | 4.9, 4.75,4.04, 4.7,4.95, 4.95, 4.62, 4.44, 4.57, 4.57, 4.32, 4.52, 4.65, 4.98, 4.65, 4.83, 4.47, 3.58, 4.8, 3.66, 4.95, 4.67, 4.93, 4.88,4.88, 4.85, 4.93, 4.06 |  |
| 2015 N/A |  |  |  |  |
| 2014 | 733 | 6 | 3.99, 3.73, 4.67, 4.98, 4.72, 4.78 |  |
| 2013 | 66 | 0 |  |  |
| 2012 | 67 | 0 |  |  |
| 2011 | 67 | 2 | 4.56, 4.87 | Manlids |
|  |  |  |  |  |
| **Tank E** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 431 | 0 |  |  |
| 2015 N/A |  |  |  |  |
| 2014 | 67 | 2 | 4.98, 4.56 | Manlids |
| 2013 | 67 | 0 |  |  |
| 2012 N/A |  |  |  |  |
| 2011 | 67 | 7 | 4.09, 4.3, 4.65, 2.59, 2.73, 4.41, 3.23 | Manway and Manlids |
|  |  |  |  |  |
| **Tank F** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 521 | 2 | 4.88, 4.90 | Shell and Manlid |
| 2015 N/A |  |  |  |  |
| 2014 | 1164 | 3 | 4.93, 4.75, 4.67 | Sump |
| 2013 | 67 | 0 |  |  |
| 2012 | 67 | 4 | 2.62, 2.62, 3.59, 2.22 | Manlid |
| 2011 N/A |  |  |  |  |
|  |  |  |  |  |
| **Tank G** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 456 | 11 | 4.83, 4.85, 4.67, 4.90, 4.75, 4.62, 4.90, 4.55, 4.4, 4.72, 4.83 |  |
| 2015 | 658 | 17 | 4.85, 4.24, 4.88, 4.7, 4.14, 4.85, 4.83, 4.90, 4.95, 4.95, 4.78, 4.2, 4.90, 4.67, 4.22, 4.78, 4.98 |  |
| 2014 N/A |  |  |  |  |
| 2013 | 67 | 2 | 4.6, 4.36 | Manlid |
| 2012 | 67 | 5 | 4.62, 4.42, 4.62, 4.59, 4.42 | Manlid and Manway |
| 2011 N/A |  |  |  |  |
|  |  |  |  |  |
| **Tank H** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 598 | 7 | 4.93, 4.88, 4.67, 4.95, 4.95, 4.62, 4.67 |  |
| 2015 | 484 | 14 | 4.32, 4.55, 4.44, 4.42, 4.44,4.57, 4.98, 4.32, 4.04, 4.83, 4.47,4.95, 4.22, 4.95 |  |
| 2014 | 67 | 0 |  |  |
| 2013 | 67 | 1 | 4.83 | Manlid |
|  |  |  |  |  |
| **Tank I** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 502 | 1 | 4.01 |  |
| 2015 | 451 | 0 |  |  |
| 2014 N/A |  |  |  |  |
| 2013 | 67 | 0 |  |  |
|  |  |  |  |  |
| **Tank J** |  |  |  |  |
|  |  |  |  |  |
| 2016 | 639 | 8 | 4.55, 4.57, 4.95, 4.47, 4.01, 4.24, 4.75, 4.83, |  |
| 2015 | 483 | 0 |  |  |
| 2014 N/A |  |  |  |  |
| 2013 | 67 | 0 |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tanks tested between 12 and 15 months** | | | | |
| Tank Number | Total # of readings | # of readings below 5 mm | Readings below 5 mm | Location if known |
| **Tank A** |  |  |  |  |
|  |  |  |  |  |
| 2015 | 67 | 0 |  |  |
|  |  |  |  |  |
| **Tank B** |  |  |  |  |
|  |  |  |  |  |
| 2015 | 67 | 1 | 4.77 | Manway |
|  |  |  |  |  |
| **Tank C** |  |  |  |  |
|  |  |  |  |  |
| 2015 | 67 | 2 | 4.79, 4.93 | Manlind and Manway |
|  |  |  |  |  |
| **Tank D** |  |  |  |  |
|  |  |  |  |  |
| 2015 | 67 | 0 |  |  |
|  |  |  |  |  |
| **Tank E** |  |  |  |  |
|  |  |  |  |  |
| 2015 | 67 | 0 |  |  |