

**Lasell, Roger**

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**To:** Queen of Alberni, Engineering; Reulets, Sergiy  
**Cc:** FOIPP s.22 Karim, Azmal; Aslett, Kathleen  
**Subject:** Annual Asbestos Inspection s.22 July 2012 - Queen of Alberni

**Attachments:** GI 1403 Asbestos Audit Queen of Alberni - 2012-07-s.22.pdf

Please find attached the Annual Asbestos Inspection conducted on s.22 July 2012  
When an item is completed [as per due date] s.22 please click on the supplied link to update the file information.



GI 1403 Asbestos  
Audit Queen o...

The following are the corrective actions :

**1. Corrective Action: Action to improve inspections**

**Assigned To:** FOIPP s.22

**Action Type:**

**Priority:**

**Target Date:** 31-Jul-2012

**Due Date:** 31-Jul-2012

**Action Comments:** Use only current Insualtion checklists for quarterly inspections General

**Incident Number:** 1403

**Case Number:**

**Root Cause ID:**

**Audit ID:**

**Finding ID:**

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**2. Corrective Action: Action to improve maintenance program**

**Assigned To:** FOIPP s.22

**Action Type:**

**Priority:**

**Target Date:** 31-Aug-2012

**Due Date:** 31-Aug-2012

**Action Comments:** Review both bridge area for asbestos signage. Replace signage to indicate the presense of asbestos behind encapsulate panels. Where signage has been painted over replace with new signage.

**General Incident Number:** 1403

**Case Number:**

**Root Cause ID:**

**Audit ID:**

**Finding ID:**

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**3. Corrective Action: Review**

**Assigned To:** FOIPP s.22

**Action Type:**

**Priority:**

Target Date: 30-Sep-2012

Due Date: 30-Sep-2012

Action Comments: Review the current asbestos contingency with crew on a quarterly basis to match inspections checklist schedule.

General Incident Number: 1403

Case Number:

Root Cause ID:

Audit ID:

Finding ID:

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

Thank you,

Roger Lasell

Safety Officer, South Coast

British Columbia Ferry Service Inc.

Office: ss. 15, 19, 22

Cell: 6

[roger.lasell@bcferries.com](mailto:roger.lasell@bcferries.com)

[www.bcferries.com](http://www.bcferries.com)

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## 1.6-Vessel Insulation ACM Audit Queen of Alberni

# **1.6-Vessel Insulation ACM Audit**

conducted for

## **Queen of Alberni**

**Author**  
Roger Lasell

**Date**  
2012-07-

**Location**  
on vessel

**Personnel Present**

# AUDIT FINDINGS

| Question  | Response   | Details  |
|---|------------|--|
| <b>1. Asbestos Containing Material -ACM. Acronyms</b>   |            |  |
| 1.1 HEPA High Efficiency Particulate Air (filter)   |            |  |
| 1.2 NOP Notice of Project (WSBC form 52E49)   |            |  |
| 1.3 SOP Safe Operating Procedure  |            |  |
| 1.4 OH&SR Occupational & Health Safety Regulation   |            |  |
| 1.5 WCA Workers Compensation Act  |            |  |
| <b>2.0 Risk Assessments</b>   |            |  |
| 2.1 Can workers explain the risk assessment process for an asbestos spill?                    | Yes        |  |
| Can workers describe how the risk assessment effects the clean up process?                    | Yes        | There was some discussion regarding the amount of a spill which would warrant outside assistance.  |
| <b>3.0 Training</b>   |            |  |
| 3.1 Do the workers have asbestos contingency training?  | Yes        | Although all have the training, most had the training more than 10 year previous. The newest member of the crew was the most recent being trained. |
| 3.2 Was any contingency training older than 5 years?  | Yes        | More than 10 years.  |
| 3.3 Does the supervisor check that workers have had contingency training prior to assignment? | FOIPP s.22 |  |
| 3.4 Does the supervisor check that workers have had respiratory training prior to assignment? |            |  |
| 3.5 Are the workers aware of the clean shaven policy and respirator use with ACM?             | Yes        |  |
| 3.6 Has the supervisor demonstrated the correct way to wear and seal a Tryvek type suit?      | FOIPP s.22 |  |
| 3.7 Does the supervisor know how to complete and submit a NOP?                                |            |  |
| 3.8 Does the supervisor know how to complete and send a chain of custody document?            |            |  |
| 3.9 Does the supervisor have a good understanding of the process of asbestos contingency?     |            |  |
| <b>4.0 Identification of ACM</b>  |            |  |

| Question   | Response | Details   |
|--|----------|---|
| 4.1 Can the workers explain/identify the symbol decal for ACM?                                   | Yes      |   |
| 4.2 Does the decaling correspond with the insulation survey?                                     | No       | bridge # 2 is not consistent with signage compared with the bridge # 1<br>Some si   |
| 4.3 Are there any recent annotations in the insulation survey indicating new ACM discoveries?    | No       | The last recent checklist was done in May 2012. The checklist used was not a recent checklist (June 2009). The current checklist was January 2012. s.22 is having the checklist redone from the January 2012 checklist. Some signage has been taped or painted over. A notice of deficiency will be written regarding to ACM signage. |
| 4.4 Is there any signage on new ACM discoveries?   | No       |   |
| 4.5 Are their quarterly inspections noted in the ACM File on board?                              | Yes      | Although there are quarterly inspections it was apparent that the crew was not using the most current checklist. This was immediately pointed out to s.22 and a new current checklist was to be conducted. SO will followup to ensure completion.   |
| 4.6 Is the insulation report current ( report must be updated every 2.5 yrs or with major work)? | Yes      |   |
| 4.7 Is there current labeling in the crew only areas warning crew of know asbestos?              | Yes      |   |
| 4.8 Is the extent of ACM clearly distinguished by the decaling?                                  | No       | one of the bridge areas does not have appropriate signage (report from ERA) and confirmed.  |

## 5.0 Inspection Checklist

|  |            |  |
|--|------------|--|
| 5.1 Is the inspection checklist accurate and includes annotations?                                   | No         | checklist need to be redone due to an outdated checklist being used. NOD to be issued. |
| 5.2 Has the checklist been completed on a quarterly basis?   | Yes        |  |
| 5.3 Is the material essentially in the same condition as applied?                                    | Safe       |  |
| 5.4 Can the crew describe Good / Moderate / Poor condition?  | Yes        |  |
| 5.5 Is the supervisor aware of the requirements for a moderate score on the checklist?               | FOIPP s.22 |  |
| 5.6 Is the supervisor aware of the necessary action when there is an indication of a poor condition? |            |  |

## 6.0 Safe Work Procedures

| Question   | Response             | Details  |
|--|----------------------|--|
| 6.1 Prior to use of a HEPA vacuum are the workers aware of checking the DOP certificate?                   | No                   | Most crew were not fully aware. Safety Officer explained the necessity of the DOP certificate. |
| 6.2 Are there written work procedures available for workers prior to a clean up                            | Yes                  |  |
| 6.3 Is the supervisor aware of reviewing Safe Work procedures even for an outside contractor?              | FOIPP s.22           |  |
| 6.4 Is the supervisor aware that a contractor needs to complete a notice of project?                       |                      |  |
| <b>7.0 ACM abatement - Maintenance /Repair</b>   |                      |  |
| 7.1 Is the supervisor aware of the non-emergency flow chart for the abatement process?                     | FOIPP s.22           |  |
| 7.2 Is the supervisor aware of the flow chart for suspected disturbance/spill for the abatement process?   |                      |  |
| 7.3 Do the workers know where the asbestos kit is stored?  | Yes                  |  |
| 7.4 Does the asbestos kit contain all the materials as specified in the safety manual 07.02.040B?          | Yes                  |  |
| 7.5 Does the supervisor understand the process for requesting a lab test to determine ACM?                 | FOIPP s.22           |  |
| <b>8.0 Asbestos Disposal Process</b>   |                      |  |
| 8.1 Is the supervisor aware that waste asbestos must be treated as " solid hazardous waste" ?              | FOIPP s.22           |  |
| 8.2 Can the supervisor describe how to dispose of any asbestos material and related contaminated material? |                      |  |
| 8.3 Can the supervisor describe the disposal method for non friable asbestos?                              |                      |  |
| 8.4 Can the Chief Engineer describe their responsibilities as it applies to asbestos?                      |                      |  |
| 8.5 Can the Engineering workers describe their responsibilities as it applies to asbestos?                 | Yes                  |  |
| Regional Safety Officer  | Roger Lasell         | FOIPP s.22, signature  |
|  |                      | 2012-07- <u>s.22</u>   |
| Enter date signed by RSO   | 2012-07- <u>s.22</u> |  |

| Question                  | Response     | Details   |
|---------------------------|--------------|---|
| Comments                  | Yes          | After reviewing the outdated (2009) insulation checklist. It appeared that s.22 at the time of the checklist inspection did not know how to obtain a current checklist. s.22 and the Safety Officer showed the individual where to obtain a copy. A new checklist inspection will be completed to ensure all items are covered. A suggestion to the s.22 included further review of asbestos contingency in the form of drills. Signage in both bridges need to be review and corrected where signage is missing or covered by paint. |
| FOIPP s.22                |              | signature, s.22<br>2012-07-s.22   |
| Date signed by FOIPP s.22 | 2012-07-s.22 |   |





## Asbestos Safety Audit

Vessel / Terminal: Bowen Q. Medgate File No.: GI-1365 Date: 2012-06-22 s.22

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

### 2.0 Risk Assessments

Yes No

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 2.1 | Explain the risk assessment process for an asbestos spill. | ✓ |  |  |
| 2.2 | How does the risk assessment effect the cleanup process?   | ✓ |  |  |

### Training

|     |   |            |  |          |
|-----|---|------------|--|----------|
| 3.1 | Do workers have asbestos contingency training?  | ✓          |  |          |
| 3.2 | Was the furthest date of contingency training older than 5 years?   |            |  | 7+ YEARS |
| 3.3 | Does the supervisor check that staff have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |          |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |            |  |          |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |          |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tryvek suit?                                   |            |  |          |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |            |  |          |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |            |  |          |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |            |  |          |

| 4.0 | Identification of ACM   | Yes | No | Notes:               |
|-----|---|-----|----|----------------------|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | /   |    |                      |
| 4.2 | Does the decaling correspond with the insulation survey?  | /   | /  | SOME DECALS MISSING. |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               |     | /  |                      |
| 4.4 | Is there any signage on recent new ACM discoveries?   | N/A |    |                      |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | /   |    |                      |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | /   |    |                      |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | /   |    |                      |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               | /   |    |                      |

| 5.0 | Inspection Checklist   | Notes:     |  |  |
|-----|--|------------|--|--|
| 5.1 | Is the inspection checklist accurate and includes annotations?   | /          |  |  |
| 5.2 | Has the checklist been completed on a quarterly basis?   | /          |  |  |
| 5.3 | Is the material essentially in the same condition as it was applied?   | /          |  |  |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?  | /          |  |  |
| 5.5 | Is the supervisor aware of requirements for a moderate score on the checklist?<br><br><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i> | FOIPP s.22 |  |  |

## 5.0 Inspection Checklist

Notes:

|     |  |            |  |
|-----|--|------------|--|
| 5.6 | <p>Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?</p> <p><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i></p> | FOIPP s.22 |  |
|-----|--|------------|--|

## 6.0 Safe Work Procedures

Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 6.1 | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | /          |  |  |
| 6.2 | Are there written work procedures available for workers prior to a clean up?  | /          |  |  |
| 6.3 | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |  |
| 6.4 | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |  |

## 7.0 ACM Abatement for maintenance / Repairs

Yes No

Notes:

|     |  |            |  |                  |
|-----|--|------------|--|------------------|
| 7.1 | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |  |                  |
| 7.2 | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |  |                  |
| 7.3 | Does the engineering crew know the location of the asbestos emergency kit?                                   | /          |  | CHECKED MONTHLY! |
| 7.4 | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? | /          |  |                  |



## Asbestos Safety Audit

### 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |   |            |
|-----|---|------------|
| 7.5 | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |
|-----|---|------------|

### 8.0 Asbestos Disposal Process Notes:

|     |  |                                     |                          |  |
|-----|--|-------------------------------------|--------------------------|--|
| 8.1 | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22                          |                          |  |
| 8.2 | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |                                     |                          |  |
| 8.3 | Can the supervisor describe the disposal method for non-friable asbestos?  |                                     |                          |  |
| 8.4 | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |                                     |                          |  |
| 8.5 | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |  |

FOIPP s.22

Regional Safety Officer

2012-06- s.22

Date

FOIPP s.22

JUNE s.22 - 2012

Date

FOIPP s.22

FOIPP s.22

FOIPP s.22

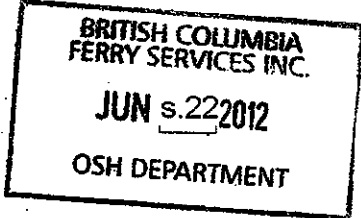
V. KNOWLEDGEABLE RE ASBESTOS

FOIPP s.22

AWARE OF RESPONSIBILITIES & PROCEDURES.



Occupational Safety and Health Department  
Notice of Deficiency/Observation/  
Contact Report

|   |  |  |   |  |
|---|--|--|---|--|
| Date: 2012-06-22  | Time: 14:00  | OSH Officer: DAVE PECK                           | Priority:   | NOD <u>OBS</u> CONTACT                       |
| Vessel/Terminal: <u>BOWEN QUEEN</u>   | Watch: -   | Location/Jobsite: <u>PASSOVER / CREW LUNCHES</u> | Region: <u>SI</u>                                 |  |
| To: Supervisor/Worker: <u>FOIPP s.22</u>  |  | Title: <u>FOIPP s.22</u>                         |   |  |
| Incident/Concern/Comment: <u>ASBESTOS DECALS MISSING / HIDDEN</u>   |  |  |   |  |
| WCB OH&S Regulation: <u>6.5</u>   | Fleet Reg.   | Other Reg.                                       | Medgate File No: <u>1365</u>                      | CIM File No:                                 |
| Regulation Infraction: <input type="checkbox"/>   | Contact Only: <input type="checkbox"/>               | Inspection: <input type="checkbox"/>             | Investigation Follow-up: <input type="checkbox"/> | Incident/Follow-up: <input type="checkbox"/> |
| Description of Deficiency/Observation/Contact Details   |  |  |   |  |
| <input type="checkbox"/> <b>PRIORITY LEVEL 1:</b> URGENT-MAY BE IMMEDIATELY DANGEROUS TO LIFE OR HEALTH, IMMEDIATE ACTION IS REQUIRED.  |  |  |   |  |
| <input type="checkbox"/> <b>PRIORITY LEVEL 2:</b> MANDATORY-REQUIRED BY REGULATION OR RULE, DOES NOT MEET APPLICABLE STANDARD.          |  |  |   |  |
| <input checked="" type="checkbox"/> <b>OBSERVATION:</b> SHOULD BE REVIEWED FOR CORRECTION TO PREVENT ANY ESCALATION TO PRIORITY 1 OR 2. |  |  |   |  |
| <u>ASBESTOS IDENTIFICATION DECALS HIDDEN / MISSING -</u><br><u>TO BE REPLACED TO MATCH ASBESTOS INVENTORY</u>                           |  |  |   |  |
| <div style="text-align: right;"></div>              |  |  |   |  |
| Signature of Issuing OSH Officer/Manager: <u>FOIPP s.22</u>   |  | (Print Name) <u>D. J. PECK</u>                   |   |  |
| Signature of Supervisor/Manager: <u>FOIPP s.22</u>  |  | (Print Name) <u>FOIPP s.22</u>                   |   |  |
| Corrective Action Plan (if required)  |  |  |   |  |
| <u>REPLACE MISSING DECALS AS PER INVENTORY.</u>   |  |  |   |  |
| Due Date: <u>JULY 31, 2012</u>  |  | To be Completed By: <u>FOIPP s.22</u>            |   |  |
| Signature of Super/Manager  |  | Position:  |   | Date   |
| Distribution List:  |  |  |   |  |
| ORIGINAL (White)  | ADDRESSEE  |  |   |  |
| YELLOW  | OSH MANAGER (on completion of the corrective action) |  |   |  |
| PINK  | AREA SR. MGR. SUPERINTENDENT                         |  |   |  |
| GOLD  | OSH FILE   |  |   |  |

**Aslett, Kathleen**

**From:** Aslett, Kathleen

**Sent:** June 18, 2012 11:49 AM

**To:** Anderson, Peter; FOIPP s.22

**Cc:** Wills, Stuart; de Koninck, Captain Al; Smit, Captain Michael

**Subject:** RE: Asbestos Safety Audit Report - Queen of Burnaby Jun.22 2012

**Importance:** High

Thank you Peter for your recent Audit.

I am concerned re the decaling issue on the ship not reflecting the inventory report. This was a major issue that sited in the fine administered against the ship in 2010 so to see that this remains a deficiency is troubling as a second inspection by WSBC where this remains an issue will bring an automatic \$150,000. fine.

I cannot state how urgent this must be to get right. I strongly recommend that this be addressed without delay. The intense Asbestos training provided to the crew should make this ship a shining example of excellence in Asbestos Management. I also strongly encourage immediate enrolment in the Asbestos contingency course for FOIPP s.22

Please work with the crew to address these important safety matters. I would like a follow up report by July 30<sup>th</sup> on corrective actions.

Thank you.

Kathleen Aslett

Manager, Occupational Safety & Health

The Atrium

500-1321 Blanshard Street

Victoria, BC

V8W 0B7

250 ss. 15, 19, 22

250

250 ss. 15, 19

[kathleen.aslett@bcferries.com](mailto:kathleen.aslett@bcferries.com)

[www.bcferries.com](http://www.bcferries.com)

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**From:** Anderson, Peter

**Sent:** June 15, 2012 2:42 PM

**To:** FOIPP s.22

**Cc:** Aslett, Kathleen; Wills, Stuart; de Koninck, Captain Al; Smit, Captain Michael

**Subject:** Asbestos Safety Audit Report - Queen of Burnaby Jun.22 2012

Good afternoon,

Please find the attached Asbestos Safety Audit report for the Queen of Burnaby.

The findings itemized in this report will be captured in corrective action files in the the Medgate database. Department managers will receive a separate email with links to track changes for each corrective actions. Managers/delegates, please use these links to provide updates, closure details, and closure dates for each corrective action item.

Regards,  
Peter

<< File: GI 1345 Abestos Safety Audit BurnabyJun 2012.doc >>

Peter Anderson  
Regional Safety Officer, North Islands  
British Columbia Ferry Services Inc.  
Tel: (250) ss. 15, 19, 22  
Mobile: [redacted]  
Fax: (250) ss. 15, 19  
[peter.anderson@bcferries.com](mailto:peter.anderson@bcferries.com)  
[www.bcferries.com](http://www.bcferries.com)

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**Aslett, Kathleen**

**From:** Aslett, Kathleen

**Sent:** June 18, 2012 11:55 AM

**To:** Johnston, Darren

**Cc:** Sherring, Terry

**Subject:** FW: Asbestos Safety Audit Report - Queen of Burnaby Juns.22 2012

Hi Darren:

FOIPP s.22 [redacted]

My response to Peter copied to the report recipients is below. Peter has assigned 4 CA's out of Medgate addressing his findings. If we need any further ambition to move on this, this is it.

Thank you Peter for your recent Audit.

I am concerned re the decaling issue on the ship not reflecting the inventory report. This was a major issue that was sited in the fine administered against the ship in 2010 (and on the QQII) so to see that this remains a deficiency is troubling as a second inspection by WSBC where this remains an issue will bring an automatic \$150,000. fine.

I cannot state how urgent this must be to get right. I strongly recommend that this be addressed without delay. The intense Asbestos training provided to the crew should make this ship a shining example of excellence in Asbestos Management. I also strongly encourage immediate enrolment in the Asbestos contingency course for the FOIPP s.22 [redacted]

Please work with the crew to address these important safety matters. I would like a follow up report by July 30<sup>th</sup> on corrective actions.  
Thank you.

Kathleen Aslett  
Manager, Occupational Safety & Health  
The Atrium  
500-1321 Blanshard Street  
Victoria, BC  
V8W 0B7

250- [redacted] ss. 15, 19, 22

250- [redacted]

250- [redacted] ss. 15, 19

[kathleen.aslett@bcferries.com](mailto:kathleen.aslett@bcferries.com)

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**From:** Anderson, Peter

**Sent:** June 15, 2012 2:42 PM

**To:** FOIPP s.22

**Cc:** Aslett, Kathleen; Wills, Stuart; de Koninck, Captain Al; Smit, Captain Michael

**Subject:** Asbestos Safety Audit Report - Queen of Burnaby Jun<sup>s.22</sup> 2012

Good afternoon,

Please find the attached Asbestos Safety Audit report for the Queen of Burnaby.

The findings itemized in this report will be captured in corrective action files in the the Medgate database. Department managers will receive a separate email with links to track changes for each corrective actions. Managers/delegates, please use these links to provide updates, closure details, and closure dates for each corrective action item.

Regards,  
Peter



GI 1345 Abestos  
Safety Audit B...

Peter Anderson  
Regional Safety Officer, North Islands  
British Columbia Ferry Services Inc.  
Tel: (24 ss. 15, 19, 22  
Mobile: ss. 15, 19  
Fax: (2 ss. 15, 19  
[peter.anderson@bcferries.com](mailto:peter.anderson@bcferries.com)  
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## Asbestos Safety Audit

Vessel / Terminal: Queen of Burnaby Medgate File No.: GI 1345 Date: 22 June 2012

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

### 2.0 Risk Assessments

Yes No

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 2.1 | Explain the risk assessment process for an asbestos spill. | √ |  |  |
| 2.2 | How does the risk assessment effect the cleanup process?   | √ |  |  |

### Training

|     |  |            |  |  |
|-----|--|------------|--|--|
| 3.1 | Do workers have asbestos contingency training?   | √          |  | Most received 2 day contingency course in 2011. Only 1 CE received the 2 day contingency training in 2011. Other 3 CE have 1 day contingency training in 2012. |
| 3.2 | Was the furthest date of contingency training older than 5 years?  | √          |  | s.22 contingency training 12 years ago. 5 Engineers have not had training since 2005/2006  |
| 3.3 | Does the supervisor check that staffs have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |  |
| 3.4 | Does the Supervisor check that staffs have had respiratory training before assigning asbestos related work?        |            |  |  |
| 3.5 | Does the supervisor ensure that staffs are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |  |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tyvek suit?                                     |            |  |  |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?   |            |  |  |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                            |            |  |  |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                              |            |  |  |

## 4.0

### Identification of ACM

Yes No

Notes:

|     |   |   |   |   |
|-----|---|---|---|---|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | √ |   |   |
| 4.2 | Does the decaling correspond with the insulation survey?  |   | √ | Some decals do not seem to match information in survey  |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               |   | √ | Recent abatement work and bulk sample analysis is missing from survey   |
| 4.4 | Is there any signage on recent new ACM discoveries?   |   | √ | Communications regarding abatement and inspection results has been poor – causing confusion and concern to crew members in deck and catering depts.                             |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   |   |   | See sec 5.1. Inspection checklists done poorly  |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | √ |   | Moderate risk – Last Survey was done in Feb 2012 and inspection was completed in May 2012.  |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  |   | √ | Labelling in fan rooms - "compartment contains asbestos" in lieu of asbestos triangle and circle stickers. All other crew areas are labelled with decals. – many decals missing |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               |   | √ | There are many missing decals on bulkheads, deckheads, and pipe lagging   |

## 5.0 Inspection Checklist

Notes:

|     |  |   |  |   |
|-----|--|---|--|---|
| 5.1 | Is the inspection checklist accurate and includes annotations? | √ |  | Vessel crew are using writable electronic copy of the checklist. May 2012 quarterly Inspection Checklist was done poorly, with no comments regarding damaged materials. Corrected on site – May checklist redone with s.22 and Safety Officer in June 2012. Damages noted on checklist. Annotated checklist will be used for future inspections |
| 5.2 | Has the checklist been completed on a quarterly basis?         | √ |  |   |

## Asbestos Safety Audit

|     |  |            |   |   |
|-----|--|------------|---|---|
| 5.3 | Is the material essentially in the same condition as it was applied?   |            | √ | Accurate accounting of condition annotated in Jun 2012 Checklist. |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?  |            | √ | This is a new concept for the crew and supervisors.               |
| 5.5 | Is the supervisor aware of requirements for a moderate score on the checklist?<br><br><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i> | FOIPP s.22 |   |   |

### 5.0 Inspection Checklist

Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 5.6 | Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?<br><br><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i> | FOIPP s.22 |  |  |
|-----|---|------------|--|--|

### 6.0 Safe Work Procedures

Notes:

|     |   |            |  |                                 |
|-----|---|------------|--|---------------------------------|
| 6.1 | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | √          |  | DOP certified HEPA Vac on board |
| 6.2 | Are there written work procedures available for workers prior to a clean up?  | √          |  | On line                         |
| 6.3 | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |                                 |
| 6.4 | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |                                 |



## Asbestos Safety Audit

| 7.0 ACM Abatement for maintenance / Repairs |  | Yes        | No | Notes:   |
|---|--|------------|----|--|
| 7.1   | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |    |  |
| 7.2   | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |    |  |
| 7.3   | Does the engineering crew know the location of the asbestos emergency kit?                                   | ✓          |    | New Safety Equipment Locker installed in B-Void. Includes Asb. Emergency Kit   |
| 7.4   | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? | ✓          |    | Kit complete. Supervisors use a preventative maintenance reminder in Maximo to complete kit checklist. Posted on Safety Equipment Locker in B-Void |

| 7.0 ACM Abatement for maintenance / Repairs |   | Yes        | No | Notes: |
|---|---|------------|----|--------|
| 7.5   | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |    |        |

| 8.0 Asbestos Disposal Process |  | Notes:     |  |   |
|-------------------------------|--|------------|--|---|
| 8.1                           | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22 |  |   |
| 8.2                           | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |            |  |   |
| 8.3                           | Can the supervisor describe the disposal method for non-friable asbestos?  |            |  |   |
| 8.4                           | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |            |  |   |
| 8.5                           | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | ✓          |  | Always refer to Insulation report. Any doubt consider it as ACM |



## Asbestos Safety Audit

Peter Anderson \_\_\_\_\_  
Regional Safety Officer

June 22 2012 \_\_\_\_\_  
Date

FOIPP s.22 \_\_\_\_\_  
FOIPP s.22 \_\_\_\_\_

June 22 2012 \_\_\_\_\_  
Date

**From:** Anderson, Peter  
**Sent:** June 15, 2012 2:43 PM  
**To:** FOIPP s.22 [redacted]  
**Cc:** Smit, Captain Michael  
**Subject:** Asbestos Safety Audit Queen of Burnaby June s.22 2012  
Hi FOIPP s.22 [redacted]

The following is a list of deficiencies that were identified during the Asbestos Safety Audit on June s.22. The deficiencies have been itemized and assigned as corrective actions for you or your designate to follow up. The links take you to the Medgate record for each corrective action. Please update these records with completion comments and dates.

Please contact me if you have any questions regarding the findings.

Regards,  
Peter

**Corrective Action:** Action to improve inspections

**Assigned To:** FOIPP s.22 [redacted]

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** Replace missing asbestos decals, and labelling in some crew and passenger areas.

Decals are used as a secondary means to assist in identifying the locations of ACMs in conjunction with the Insulation Survey. These decals should appear on bulkheads, deckheads and pipe runs.

Other means of labelling may be used in crew areas. Placards have been installed, in lieu of decals, in fan rooms describing ACMs in the compartments

To close the corrective action please open the following link:

<https://bcferries> FOIPP s.15 [redacted]  
[redacted]

**Corrective Action:** Evaluate health and safety communication effectiveness

**Assigned To:** FOIPP s.22 [redacted]

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** Improve communications regarding asbestos inspection and asbestos abatement.

Efforts to share asbestos management information across departments has consistently filtered down to supervisors and crew members on all watches.

To close the corrective action please open the following link:

<https://bcferries> FOIPP s.15 [redacted]  
[redacted]

**Corrective Action:** Action to improve inspections

**Assigned To:** FOIPP s.22 [redacted]

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** Engage Consultant to update Insulation Survey and Checklist

s.22 and Safety Officer conducted detailed review of Insulation Survey and Checklist and identified many errors, omissions, and inadequate descriptions.

To close the corrective action please open the following link:

<https://bcferries> FOIPP s.15 [redacted]  
[redacted]

**Corrective Action:** Training/retrain person(s) (school)

**Assigned To:** FOIPP s.22 [redacted]

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** Supervisors and crew required to review recent changes to Asbestos Exposure Control Plan (07.02.040 of the Safety Manual)

Supervisors and Crew: review definitions and follow up actions for "Good, Moderate, Poor" notations on Asbestos Inspection Checklist (pg 3)

Supervisors: review flow charts for ACM abatement for non-emergency maintenance/repair (pg 6)

Supervisors: review flow charts for ACM abatement for suspected disturbance/spill (pg 7)

To close the corrective action please open the following link:

[https://bcferries.FOIPP s.15 \[redacted\]](https://bcferries.FOIPP s.15 [redacted])

Peter Anderson

Regional Safety Officer, North Islands

British Columbia Ferry Services Inc.

Tel: (2 ss. 15, 19, 22 [redacted])

Mobile [redacted]

Fax: (2 ss. 15, 19 [redacted])

peter.anderson@bcferries.com

www.bcferries.com

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**From:** Anderson, Peter  
**Sent:** June 15, 2012 2:42 PM  
**To:** FOIPP s.22  
**Cc:** Aslett, Kathleen; Wills, Stuart; de Koninck, Captain Al; Smit, Captain Michael  
**Subject:** Asbestos Safety Audit Report - Queen of Burnaby Jun<sup>ts</sup>.222012

**Attachments:** GI 1345 Abestos Safety Audit BurnabyJun 2012.doc  
Good afternoon,

Please find the attached Asbestos Safety Audit report for the Queen of Burnaby.

The findings itemized in this report will be captured in corrective action files in the the Medgate database. Department managers will receive a separate email with links to track changes for each corrective actions. Managers/delegates, please use these links to provide updates, closure details, and closure dates for each corrective action item.

Regards,  
Peter



GI 1345 Abestos  
Safety Audit B...

Peter Anderson  
Regional Safety Officer, North Islands  
British Columbia Ferry Services Inc.  
Tel: (25 ss. 15, 19, 22)  
Mobile:  
Fax: (2 ss. 15, 19)  
peter.anderson@bcferries.com  
www.bcferries.com

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## Asbestos Safety Audit

Vessel / Terminal: Queen of Burnaby Medgate File No.: GI 1345 Dates: 22 June 2012

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

| 2.0 | Risk Assessments   | Yes | No | Notes: |
|-----|--|-----|----|--------|
| 2.1 | Explain the risk assessment process for an asbestos spill. | √   |    |        |
| 2.2 | How does the risk assessment effect the cleanup process?   | √   |    |        |

### Training

|     |  |            |  |  |
|-----|--|------------|--|--|
| 3.1 | Do workers have asbestos contingency training?   | √          |  | Most received 2 day contingency course in 2011. Only 1 CE received the 2 day contingency training in 2011. Other 3 CE have 1 day contingency training in 2012. |
| 3.2 | Was the furthest date of contingency training older than 5 years?  | √          |  | s.22 contingency training 12 years ago. 5 Engineers have not had training since 2005/2006  |
| 3.3 | Does the supervisor check that staffs have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |  |
| 3.4 | Does the Supervisor check that staffs have had respiratory training before assigning asbestos related work?        |            |  |  |
| 3.5 | Does the supervisor ensure that staffs are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |  |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tyvek suit?                                     |            |  |  |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?   |            |  |  |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                            |            |  |  |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                              |            |  |  |

## 4.0

### Identification of ACM

Yes No

Notes:

|     |   |   |   |   |
|-----|---|---|---|---|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | √ |   |   |
| 4.2 | Does the decaling correspond with the insulation survey?  |   | √ | Some decals do not seem to match information in survey  |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               |   | √ | Recent abatement work and bulk sample analysis is missing from survey   |
| 4.4 | Is there any signage on recent new ACM discoveries?   |   | √ | Communications regarding abatement and inspection results has been poor – causing confusion and concern to crew members in deck and catering depts.                             |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | √ |   | See sec 5.1. Inspection checklists done poorly  |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | √ |   | Moderate risk – Last Survey was done in Feb 2012 and inspection was completed in May 2012.  |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  |   | √ | Labelling in fan rooms - "compartment contains asbestos" in lieu of asbestos triangle and circle stickers. All other crew areas are labelled with decals. – many decals missing |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               |   | √ | There are many missing decals on bulkheads, deckheads, and pipe lagging   |

## 5.0 Inspection Checklist

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 5.1 | Is the inspection checklist accurate and includes annotations? | √ |  | Vessel crew are using writable electronic copy of the checklist. May 2012 quarterly Inspection Checklist was done poorly, with no comments regarding damaged materials. Corrected on site – May checklist redone with <u>s.22</u> and Safety Officer in June 2012. Damages noted on checklist. Annotated checklist will be used for future inspections |
| 5.2 | Has the checklist been completed on a quarterly basis?         | √ |  |  |

## Asbestos Safety Audit

|     |  |            |   |   |
|-----|--|------------|---|---|
| 5.3 | Is the material essentially in the same condition as it was applied?   |            | √ | Accurate accounting of condition annotated in Jun 2012 Checklist. |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?  |            | √ | This is a new concept for the crew and supervisors.               |
| 5.5 | Is the supervisor aware of requirements for a moderate score on the checklist?<br><br><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i> | FOIPP s.22 |   |   |

### 5.0 Inspection Checklist

Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 5.6 | Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?<br><br><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i> | FOIPP s.22 |  |  |
|-----|---|------------|--|--|

### 6.0 Safe Work Procedures

Notes:

|     |   |            |  |                                 |
|-----|---|------------|--|---------------------------------|
| 6.1 | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | √          |  | DOP certified HEPA Vac on board |
| 6.2 | Are there written work procedures available for workers prior to a clean up?  | √          |  | On line                         |
| 6.3 | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |                                 |
| 6.4 | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |                                 |



## Asbestos Safety Audit

| 7.0 ACM Abatement for maintenance / Repairs |  | Yes        | No | Notes:   |
|---|--|------------|----|--|
| 7.1   | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |    |  |
| 7.2   | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |    |  |
| 7.3   | Does the engineering crew know the location of the asbestos emergency kit?                                   | ✓          |    | New Safety Equipment Locker installed in B-Void. Includes Asb. Emergency Kit   |
| 7.4   | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? | ✓          |    | Kit complete. Supervisors use a preventative maintenance reminder in Maximo to complete kit checklist. Posted on Safety Equipment Locker in B-Void |

| 7.0 ACM Abatement for maintenance / Repairs |   | Yes        | No | Notes: |
|---|---|------------|----|--------|
| 7.5   | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |    |        |

| 8.0 Asbestos Disposal Process |  | Notes:     |  |   |
|-------------------------------|--|------------|--|---|
| 8.1                           | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22 |  |   |
| 8.2                           | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |            |  |   |
| 8.3                           | Can the supervisor describe the disposal method for non-friable asbestos?  |            |  |   |
| 8.4                           | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |            |  |   |
| 8.5                           | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | ✓          |  | Always refer to Insulation report. Any doubt consider it as ACM |



## Asbestos Safety Audit

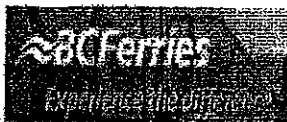
Peter Anderson \_\_\_\_\_  
Regional Safety Officer

June 22 2012 \_\_\_\_\_  
Date

FOIPP s.22

June 22 2012 \_\_\_\_\_  
Date

FOIPP s.22



## Asbestos Safety Audit

Vessel / Terminal: **MQ** Medgate File No.: Date: **2012-06-15** s.22

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act

| 2.0 | Risk Assessments   | Yes                                 | No                       | Notes: |
|-----|--|-------------------------------------|--------------------------|--------|
| 2.1 | Explain the risk assessment process for an asbestos spill. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |
| 2.2 | How does the risk assessment effect the cleanup process?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |        |

### Training

|     |   |                                     |                          |                                 |
|-----|---|-------------------------------------|--------------------------|---------------------------------|
| 3.1 | Do workers have asbestos contingency training?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                 |
| 3.2 | Was the furthest date of contingency training older than 5 years?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 15 years s.22<br>8-9 years s.22 |
| 3.3 | Does the supervisor check that staff have had contingency training before assigning asbestos related work?        | FOIPP s.22                          |                          |                                 |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |                                     |                          |                                 |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |                                     |                          |                                 |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tryvek suit?                                   |                                     |                          |                                 |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |                                     |                          |                                 |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |                                     |                          |                                 |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |                                     |                          |                                 |

| 4.0 | Identification of ACM   | Yes                                 | No                                  | Notes:         |
|-----|---|-------------------------------------|-------------------------------------|----------------|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | s.22, initials |
| 4.2 | Does the decalling correspond with the insulation survey?   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | s.22, initials |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                |
| 4.4 | Is there any signage on recent new ACM discoveries?   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                |
| 4.6 | Is the insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decalling?                              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                |

| 5.0 | Inspection Checklist   | Yes                                 | No                                  | Notes:     |
|-----|--|-------------------------------------|-------------------------------------|------------|
| 5.1 | Is the inspection checklist accurate and includes annotations?   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |            |
| 5.2 | Has the checklist been completed on a quarterly basis?   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |            |
| 5.3 | Is the material essentially in the same condition as it was applied?   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |            |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |            |
| 5.5 | Is the supervisor aware of requirements for a moderate score on the checklist?<br><br><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | FOIPP s.22 |





## Asbestos Safety Audit

### 5.0 Inspection Checklist

Notes:

|     |  |            |  |
|-----|--|------------|--|
| 5.6 | <p>Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?</p> <p><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i></p> | FOIPP s.22 |  |
|-----|--|------------|--|

### 6.0 Safe Work Procedures

Notes:

|     |   |            |   |  |
|-----|---|------------|---|--|
| 6.1 | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               |            | / |  |
| 6.2 | Are there written work procedures available for workers prior to a clean up?  | /          |   |  |
| 6.3 | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |   |  |
| 6.4 | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |   |  |

### 7.0 ACM Abatement for maintenance / Repairs

Yes No

Notes:

|     |  |            |  |  |
|-----|--|------------|--|--|
| 7.1 | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |  |  |
| 7.2 | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |  |  |
| 7.3 | Does the engineering crew know the location of the asbestos emergency kit?                                   | /          |  |  |
| 7.4 | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? |            |  | <div style="border: 1px solid black; padding: 2px;">FOIPP s.22</div> Check kit<br>2012-06- |

453-59  
458



## Asbestos Safety Audit

### 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |   |            |
|-----|---|------------|
| 7.5 | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |
|-----|---|------------|

### 8.0 Asbestos Disposal Process Notes:

|     |  |                                     |                          |  |
|-----|--|-------------------------------------|--------------------------|--|
| 8.1 | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22                          |                          |  |
| 8.2 | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |                                     |                          |  |
| 8.3 | Can the supervisor describe the disposal method for non-friable asbestos?  |                                     |                          |  |
| 8.4 | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |                                     |                          |  |
| 8.5 | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |  |

FOIPP s.22

Regional Safety Officer

FOIPP s.22

Chief Engineer

2012-06- s.22

Date

2012 - s.22 - 06

Date



## Asbestos Safety Audit

Vessel / Terminal: Q. NANTANO Medgate File No.:

Date: 2012-06 - s.22

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

### 2.0 Risk Assessments

Yes No

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 2.1 | Explain the risk assessment process for an asbestos spill. | / |  |  |
| 2.2 | How does the risk assessment effect the cleanup process?   | / |  |  |

### Training

|     |   |            |  |                            |
|-----|---|------------|--|----------------------------|
| 3.1 | Do workers have asbestos contingency training?  | /          |  | SOME ORENT                 |
| 3.2 | Was the furthest date of contingency training older than 5 years?   |            |  | S+ YEARS<br>s.22 SEPT 2011 |
| 3.3 | Does the supervisor check that staff have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |                            |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |            |  |                            |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |                            |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tryvek suit?                                   |            |  |                            |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |            |  |                            |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |            |  |                            |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |            |  |                            |

| 4.0 | Identification of ACM   | Yes | No | Notes:    |
|-----|---|-----|----|-----------|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | /   |    |           |
| 4.2 | Does the decaling correspond with the Insulation survey?  | /   |    |           |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               |     | /  |           |
| 4.4 | Is there any signage on recent new ACM discoveries?   |     | NA |           |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | /   |    |           |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | /   |    | June 2011 |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | /   |    |           |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               | /   |    |           |

| 5.0 | Inspection Checklist   | Notes:     |  |  |
|-----|--|------------|--|--|
| 5.1 | Is the inspection checklist accurate and includes annotations?   | /          |  |  |
| 5.2 | Has the checklist been completed on a quarterly basis?   | /          |  |  |
| 5.3 | Is the material essentially in the same condition as it was applied?   | /          |  |  |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?  | /          |  |  |
| 5.5 | Is the supervisor aware of requirements for a moderate score on the checklist?<br><br><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i> | FOIPP s.22 |  |  |

## 5.0 Inspection Checklist

Notes:

|     |  |                   |
|-----|--|-------------------|
| 5.6 | <p>Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?</p> <p><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i></p> | <p>FOIPP s.22</p> |
|-----|--|-------------------|

## 6.0 Safe Work Procedures

Notes:

|     |   |            |  |
|-----|---|------------|--|
| 6.1 | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | /          |  |
| 6.2 | Are there written work procedures available for workers prior to a clean up?  | /          | ONLINE DOCUMENTATION NOT USER FRIENDLY. CHECKLISTS SHOULD BE IN SEPARATE FILES |
| 6.3 | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 | ON COMPUTER + HARD COPY.   |
| 6.4 | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |

## 7.0 ACM Abatement for maintenance / Repairs Yes No

Notes:

|     |  |            |
|-----|--|------------|
| 7.1 | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |
| 7.2 | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |
| 7.3 | Does the engineering crew know the location of the asbestos emergency kit?                                   | /          |
| 7.4 | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? | /          |



## Asbestos Safety Audit

### 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |   |            |
|-----|---|------------|
| 7.5 | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |
|-----|---|------------|

### 8.0 Asbestos Disposal Process Notes:

|     |  |  |
|-----|--|--|
| 8.1 | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22   |
| 8.2 | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |  |
| 8.3 | Can the supervisor describe the disposal method for non-friable asbestos?  |  |
| 8.4 | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |  |
| 8.5 | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | <input checked="" type="checkbox"/> <input type="checkbox"/> |

FOIPP s.22

Regional Safety Officer

FOIPP s.22

FOIPP s.22

2012-08-22

Date

2012-06-22

Date

**Aslett, Kathleen**

**From:** Aslett, Kathleen  
**Sent:** August 03, 2012 9:53 AM  
**To:** FOIPP s.22 [redacted]  
**Cc:** Anderson, Peter  
**Subject:** FW: Asbestos Safety Audit North Island Princess Jun[s.22] 2012

If you guys want to conduct an Audit of the Safety Office in LR please book it and I will attend with Peter. otherwise limit some of this as Peter has other commitments, give me a call to discuss. FOIPP s.22 [redacted]

Kathleen Aslett  
Manager, Occupational Safety & Health  
The Atrium  
500-1321 Blanshard Street  
Victoria, BC  
V8W 0B7  
250 [redacted] ss. 15, 19, 22  
250 [redacted]  
250 [redacted] ss. 15, 19  
[kathleen.aslett@bcferries.com](mailto:kathleen.aslett@bcferries.com)  
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**From:** Anderson, Peter  
**Sent:** August 03, 2012 9:34 AM  
**To:** Aslett, Kathleen  
**Subject:** FW: Asbestos Safety Audit North Island Princess Jun[s.22] 2012

---

**From:** Anderson, Peter  
**Sent:** August 03, 2012 9:18 AM  
**To:** FOIPP s.22 [redacted]  
**Subject:** FW: Asbestos Safety Audit North Island Princess Jun[s.22] 2012

[redacted] s.22 has been working on deficiencies. Follow a link to check it out.

I am not sure where the Gator oil spill absorbant would fit in an OSH audit. The product we used before Gator contained silica, and was considered dangerous to health. If I find any of that really old product, I will write it as a deficiency. My understanding is that the Gator is being replaced because it is considered to be less effective than the new Multisorb product (heavier product...doesn't blow away). That is why I only mentioned it as a general note. I gave them the direction from the Environmental Bulletin on how to dispose and replace it, so I assume the site managers will take care of it.

I have the Gator disposal in my personal notes so that I can check that it is removed the next time I am on board.

**From:** Anderson, Peter  
**Sent:** June 22, 2012 2:21 PM  
**To:** FOIPP s.22  
**Cc:** Wills, Stuart  
**Subject:** Asbestos Safety Audit North Island Princess June 22, 2012

Hi Chief,

The following is a list of deficiencies that were identified during the Asbestos Safety Audit on June 22, 2012. The deficiencies have been itemized and assigned as corrective actions for you or your designate to follow up. The links take you to the Medgate record for each corrective action. Please update these records with completion comments and dates.

Please contact me if you have any questions regarding the findings.

Regards,  
Peter

**Due Date:** s.22 Sep-2012

**Action Comments:** Engage Consultant to update Insulation Survey and Checklist (latest Survey March 2009)

This Low ACM Risk site requires an updated Insulation Survey and Checklist every 2.5 years. s.22 and Safety Officer conducted review and found some compartments were not included in the 2009 Survey. These compartments were not accessible to the Consultant at the time of their inspection. All compartments were reconfigured during the last refit (except Cleaning Locker Px Lounge) with painted steel decks, bulkheads, and deckheads.

**Note:** Decaling/signage present in all compartments

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**Corrective Action:** Training/retrain person(s) (school)

**Assigned To:** FOIPP s.22

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** FOIPP s.22 require review of recent changes to the Asbestos Exposure Control Plan, Safety Manual 07.02.040 (formally Asbestos Field Guide).

Relevant sections include: definitions of decaling, ACM spill/abatement work flow charts

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**Corrective Action:** Action to improve maintenance program

**Assigned To:** FOIPP s.22

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** Order Asbestos Emergency Kit: As Per Safety Manual 07.02.040 Each worksite identified as having asbestos containing material will maintain or have access to an Asbestos Emergency Kit. The equipment and material contained in the Asbestos Emergency Kit is listed in 07.02.040 Appendix B: Checklists for Asbestos Exposure and Removal.

To close the corrective action please open the following link:



https://bcferries.FOIPP s.15

Peter Anderson  
Regional Safety Officer, North Islands  
British Columbia Ferry Services Inc.

Tel: (250) ss. 15, 19, 22

Mobile: ss. 15, 19

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**From:** Anderson, Peter  
**Sent:** June s.22 2012 2:21 PM  
**To:** FOIPP s.22  
**Cc:** Wills, Stuart  
**Subject:** Asbestos Safety Audit North Islan Princess June s.22 2012  
Hi Chief,

The following is a list of deficiencies that were identified during the Asbestos Safety Audit on June s.22 2012. The deficiencies have been itemized and assigned as corrective actions for you or your designate to follow up. The links take you to the Medgate record for each corrective action. Please update these records with completion comments and dates.

Please contact me if you have any questions regarding the findings.

Regards,  
Peter

**Due Date:** s.22 Sep-2012

**Action Comments:** Engage Consultant to update Insulation Survey and Checklist (latest Survey March 2009)

This Low ACM Risk site requires an updated Insulation Survey and Checklist every 2.5 years. s.22 and Safety Officer conducted review and found some compartments were not included in the 2009 Survey. These compartments were not accessible to the Consultant at the time of thier inspection. All compartments were reconfigured during the last refit (except Cleaning Locker Px Lounge) with painted steel decks, bulkheads, and deckheads.

Note: Decaling/signage present in all compartments

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**Corrective Action:** Training/retrain person(s) (school)

**Assigned To:** FOIPP s.22

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** FOIPP s.22 require review of recent changes to the Asbestos Exposure Control Plan, Safety Manual 07.02.040 (formally Asbestos Field Guide).

Relevant sections include: definitions of decaling, ACM spill/abatement work flow charts

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**Corrective Action:** Action to improve maintenance program

**Assigned To:** FOIPP s.22

**Target Date:** s.22 Aug-2012

**Due Date:** s.22 Sep-2012

**Action Comments:** Order Asbestos Emergency Kit: As Per Safety Manual 07.02.040 Each worksite identified as having asbestos containing material will maintain or have access to an Asbestos Emergency Kit. The equipment and material contained in the Asbestos Emergency Kit is listed in 07.02.040 Appendix B: Checklists for Asbestos Exposure and Removal.

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

Peter Anderson  
Regional Safety Officer, North Islands

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**From:** Anderson, Peter  
**Sent:** June s.22 2012 2:21 PM  
**To:** FOIPP s.22  
**Cc:** de Koninck, Captain Al; Wills, Stuart; Aslett, Kathleen  
**Subject:** Asbestos Safety Audit Report - North Island Princess June s.22 2012

**Attachments:** GI 1372 NIP Abestos Safety Audit Juns.22 2012.pdf  
Good afternoon,

Please find the attached Asbestos Safety Audit report for the North Island Princess.

The findings itemized in this report will be captured in corrective action files in the the Medgate database. Department managers will receive a separate email with links to track changes for each corrective actions. Managers/delegates, please use these links to provide updates, closure details, and closure dates for each corrective action item.

Regards,  
Peter



GI 1372 NIP  
Abestos Safety Aud..

Peter Anderson  
Regional Safety Officer, North Islands  
British Columbia Ferry Services Inc.  
Tel: (250) ss. 15, 19, 22  
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## Asbestos Safety Audit

Vessel / Terminal: North Island Princess Medgate File No.: GI 1372 Date: June s.22 2012

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

| 2.0 | Risk Assessments   | Yes | No | Notes:   |
|-----|--|-----|----|--|
| 2.1 | Explain the risk assessment process for an asbestos spill. | Y   |    | s.22 has a good understanding of the process but would also contact RSO for assistance, when necessary |
| 2.2 | How does the risk assessment effect the cleanup process?   | Y   |    |  |

### Training

|     |   |            |  |                                    |
|-----|---|------------|--|------------------------------------|
| 3.1 | Do workers have asbestos contingency training?  | Y          |  |                                    |
| 3.2 | Was the furthest date of contingency training older than 5 years?   | Y          |  | Two Engineers training beyond 2006 |
| 3.3 | Does the supervisor check that staff have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |                                    |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |            |  |                                    |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |                                    |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tryvek suit?                                   |            |  |                                    |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |            |  |                                    |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |            |  |                                    |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |            |  |                                    |

| 4.0 | Identification of ACM   | Yes | No | Notes:  |
|-----|---|-----|----|---|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   |     | N  | Some misunderstanding of the meaning of the green decals  |
| 4.2 | Does the decaling correspond with the insulation survey?  | Y   |    |   |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               |     | N  | No ACM spill, disturbance, or abatement since the Ins. Survey was printed Aug 2009. Compartments not included in Survey (no access by consultant at time of survey) have been renewed. All new painted steel. Annotations made in Survey and Checklist.   |
| 4.4 | Is there any signage on recent new ACM discoveries?   |     | N  | No need – see above   |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | Y   |    | Crew using writable pdf checklist and saving to vessel computer drives.   |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> |     | N  | Last report Mar 2009. Rewrite due. There were a few small compartments that were not included in previous survey. All but one (cleaning locker under stairs in Px lounge) compartments have been renewed at last refit. Painted steel on all surfaces<br><br>All areas need to be included on rewrite of Survey |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | Y   |    | Some missing decals – corrected on site. <span>s.22</span> posted signs in crew compartments in lieu of decaling  |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               | Y   |    |   |

| 5.0 | Inspection Checklist   |   | Notes:                             |
|-----|--|---|------------------------------------|
| 5.1 | Is the inspection checklist accurate and includes annotations? | Y | See 4.3 above                      |
| 5.2 | Has the checklist been completed on a quarterly basis?         | Y | Records show quarterly inspections |



## Asbestos Safety Audit

|     |  |            |   |  |
|-----|--|------------|---|--|
| 5.3 | Is the material essentially in the same condition as it was applied?   | Y          |   |  |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?  |            | N | Inspection checklist not completed by crew. <u>s.22</u> do these inspections |
| 5.5 | Is the supervisor aware of requirements for a moderate score on the checklist?<br><br><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i> | FOIPP s.22 |   |  |

### 5.0 Inspection Checklist

Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 5.6 | Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?<br><br><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i> | FOIPP s.22 |  |  |
|-----|---|------------|--|--|

### 6.0 Safe Work Procedures

Notes:

|     |   |            |  |                      |
|-----|---|------------|--|----------------------|
| 6.1 | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | Y          |  |                      |
| 6.2 | Are there written work procedures available for workers prior to a clean up?  | Y          |  | In the Safety Manual |
| 6.3 | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |                      |
| 6.4 | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |                      |

| 7.0 ACM Abatement for maintenance / Repairs |  | Yes        | No | Notes:   |
|---|--|------------|----|--|
| 7.1   | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |    |  |
| 7.2   | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |    |  |
| 7.3   | Does the engineering crew know the location of the asbestos emergency kit?                                   |            | N  | Some materials on site, but not in a "kit"   |
| 7.4   | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? |            | N  | Needs to be sourced and make a kit. s.22 recommends including a Maximo number for the kit and Max numbers for individual items on the checklist in the Safety Manual |

| 7.0 ACM Abatement for maintenance / Repairs |   | Yes        | No | Notes: |
|---|---|------------|----|--------|
| 7.5   | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |    |        |

| 8.0 Asbestos Disposal Process |  | Notes:     |  |  |
|-------------------------------|--|------------|--|--|
| 8.1                           | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22 |  |  |
| 8.2                           | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |            |  |  |
| 8.3                           | Can the supervisor describe the disposal method for non-friable asbestos?  |            |  |  |
| 8.4                           | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |            |  |  |
| 8.5                           | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | Y          |  |  |





## Asbestos Safety Audit

Peter Anderson

June s.22 2012

Regional Safety Officer

Date

FOIPP s.22

June s.22 2012

FOIPP s.22

Date



## Asbestos Safety Audit

Vessel / Terminal: Powell River Queen

Medgate File No.: GI 1417

Date: July s.22 2012

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

### 2.0 Risk Assessments

Yes No

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 2.1 | Explain the risk assessment process for an asbestos spill. | Y |  |  |
| 2.2 | How does the risk assessment effect the cleanup process?   | Y |  |  |

### Training

|     |   |            |  |  |
|-----|---|------------|--|--|
| 3.1 | Do workers have asbestos contingency training?  | Y          |  |  |
| 3.2 | Was the furthest date of contingency training older than 5 years?   | Y          |  | Most recent contingency training for the regular engineers was in 2005. Many go back 10+ years |
| 3.3 | Does the supervisor check that staff have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |  |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |            |  |  |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |  |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tyvek suit?                                    |            |  |  |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |            |  |  |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |            |  |  |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |            |  |  |

## 4.0 Identification of ACM

Yes No

Notes:

|     |   |   |  |   |
|-----|---|---|--|---|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | Y |  |   |
| 4.2 | Does the decaling correspond with the insulation survey?  | Y |  | Extent of ACM on board clearly understood by the regular engineering crew |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               | Y |  |   |
| 4.4 | Is there any signage on recent new ACM discoveries?   | Y |  |   |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | Y |  | All up to date. Inspections completed using the Checklist provided        |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | Y |  | October 2011  |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | Y |  |   |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               | Y |  |   |

## 5.0 Inspection Checklist

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 5.1 | Is the inspection checklist accurate and includes annotations?       | Y |  |  |
| 5.2 | Has the checklist been completed on a quarterly basis?               | Y |  |  |
| 5.3 | Is the material essentially in the same condition as it was applied? | Y |  |  |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?              | Y |  |  |

|            |   |            |
|------------|---|------------|
| <b>5.5</b> | <p>Is the supervisor aware of requirements for a moderate score on the checklist?</p> <p><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i></p> | FOIPP s.22 |
|------------|---|------------|

## 5.0 Inspection Checklist

Notes:

|            |  |            |
|------------|--|------------|
| <b>5.6</b> | <p>Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?</p> <p><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i></p> | FOIPP s.22 |
|------------|--|------------|

## 6.0 Safe Work Procedures

Notes:

|            |   |            |  |  |
|------------|---|------------|--|--|
| <b>6.1</b> | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | Y          |  |  |
| <b>6.2</b> | Are there written work procedures available for workers prior to a clean up?  | Y          |  |  |
| <b>6.3</b> | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |  |
| <b>6.4</b> | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |  |

| 7.0 ACM Abatement for maintenance / Repairs |  | Yes        | No | Notes: |
|---|--|------------|----|--------|
| 7.1   | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |    |        |
| 7.2   | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |    |        |
| 7.3   | Does the engineering crew know the location of the asbestos emergency kit?                                   | Y          |    |        |
| 7.4   | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? | Y          |    |        |

| 7.0 ACM Abatement for maintenance / Repairs |   | Yes        | No | Notes: |
|---|---|------------|----|--------|
| 7.5   | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |    |        |

| 8.0 Asbestos Disposal Process |  | Notes:     |  |  |
|-------------------------------|--|------------|--|--|
| 8.1                           | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22 |  |  |
| 8.2                           | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |            |  |  |
| 8.3                           | Can the supervisor describe the disposal method for non-friable asbestos?  |            |  |  |
| 8.4                           | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |            |  |  |
| 8.5                           | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | Y          |  |  |



## Asbestos Safety Audit

Peter Anderson

July  2012

Regional Safety Officer

Date

July  2012

Date

**From:** Anderson, Peter  
**Sent:** July 22, 2012 4:15 PM  
**To:** FOIPP s.22  
**Cc:** Wills, Stuart; Aslett, Kathleen; Kapetanakis, Manos; Quinita, Engineering;  
de Koninck, Captain Al  
**Subject:** Asbestos Safety Audit - Quinita July 22, 2012  
**Attachments:** GI 1414 Asbestos Safety Audit Quinita July 2012.pdf  
Good afternoon,

Please find the attached Asbestos Safety Audit report for the Quinita.

The asbestos management program on this vessel is in good order.

**Findings:**

Asbestos decalling reflects the current state of ACM as described in the Insulation Survey. Insulation Survey and Checklist were current.

Recent inspections were conducted using the checklist provided (done quarterly)

ACM on board in good shape

Some supervisors' and crews' asbestos contingency is older than 5 years, and there was little familiarity with the recent changes to the Asbestos Exposure Control Plan (Safety Manual)

Regards,  
Peter



GI 1414 Asbestos  
Safety Audit ...

Peter Anderson  
Regional Safety Officer, North Islands  
British Columbia Ferry Services Inc.  
Tel: (250) ss. 15, 19, 22  
Mobile: ss. 15, 19  
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## Asbestos Safety Audit

Vessel / Terminal: M.V. Quinita

Medgate File No.: GI 1414

Date: July 22 2012

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

### 2.0 Risk Assessments

Yes No

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 2.1 | Explain the risk assessment process for an asbestos spill. | Y |  |  |
| 2.2 | How does the risk assessment effect the cleanup process?   | Y |  |  |

### Training

|     |   |            |  |  |
|-----|---|------------|--|--|
| 3.1 | Do workers have asbestos contingency training?  | Y          |  |  |
| 3.2 | Was the furthest date of contingency training older than 5 years?   | Y          |  | Some supervisors have training going back 10 years |
| 3.3 | Does the supervisor check that staff have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |  |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |            |  |  |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |  |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tryvek suit?                                   |            |  |  |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |            |  |  |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |            |  |  |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |            |  |  |

2012 Version

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## Asbestos Safety Audit

### 4.0 Identification of ACM

Yes No

Notes:

|     |   |   |   |  |
|-----|---|---|---|--|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | Y |   |  |
| 4.2 | Does the decaling correspond with the insulation survey?  | Y |   |  |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               |   | N | No new discoveries since last survey was published |
| 4.4 | Is there any signage on recent new ACM discoveries?   |   | N | As above   |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | Y |   | All up to date                                     |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | Y |   | June 2011  |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | Y |   | Green decals used properly                         |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               | Y |   |  |

### 5.0 Inspection Checklist

Notes:

|     |  |            |  |  |
|-----|--|------------|--|--|
| 5.1 | Is the inspection checklist accurate and includes annotations?   | Y          |  |  |
| 5.2 | Has the checklist been completed on a quarterly basis?   | Y          |  |  |
| 5.3 | Is the material essentially in the same condition as it was applied?   | Y          |  |  |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?  | Y          |  |  |
| 5.5 | Is the supervisor aware of requirements for a moderate score on the checklist?<br><br><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i> | FOIPP s.22 |  |  |



## Asbestos Safety Audit

### 5.0 Inspection Checklist

Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 5.6 | Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?<br><br><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i> | FOIPP s.22 |  |  |
|-----|---|------------|--|--|

### 6.0 Safe Work Procedures

Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 6.1 | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | Y          |  |  |
| 6.2 | Are there written work procedures available for workers prior to a clean up?  | Y          |  |  |
| 6.3 | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |  |
| 6.4 | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |  |

### 7.0 ACM Abatement for maintenance / Repairs

Yes No

Notes:

|     |  |            |   |  |
|-----|--|------------|---|--|
| 7.1 | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |   |  |
| 7.2 | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |   |  |
| 7.3 | Does the engineering crew know the location of the asbestos emergency kit?                                   |            | N |  |
| 7.4 | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? |            | N | There is no kit on board. There were tyvek suits and respirators available |



## Asbestos Safety Audit

### 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |   |            |
|-----|---|------------|
| 7.5 | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |
|-----|---|------------|

### 8.0 Asbestos Disposal Process Notes:

|     |  |            |
|-----|--|------------|
| 8.1 | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22 |
| 8.2 | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |            |
| 8.3 | Can the supervisor describe the disposal method for non-friable asbestos?  |            |
| 8.4 | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |            |
| 8.5 | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | Y          |

Peter Anderson

July s.22 2012

Regional Safety Officer

Date

FOIPP s.22

July s.22 2012

FOIPP s.22

Date

**From:** Anderson, Peter  
**Sent:** July 25, 2012 4:46 PM  
**To:** FOIPP s.22  
**Cc:** Wills, Stuart  
**Subject:** Asbestos Safety Audit Tachek - Corrective Actions Report  
Hi Chief,

The following is a list of deficiencies that were identified during the Asbestos Safety Audit on June s.22 2012. The deficiencies have been itemized and assigned as corrective actions for you or your designate to follow up. The links take you to the Medgate record for each corrective action. Please update these records with completion comments and dates.

Please contact me if you have any questions regarding the findings.

Regards,  
Peter

**Corrective Action:** Action to improve inspections

**Assigned To:** FOIPP s.22

**Due Date:** s.22 Sep-2012

**Action Comments:** Engage Consultant to update Insulation Survey and Checklist. Last Survey August 2009. Report must be updated every 2.5 years or following major site work.

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**Corrective Action:** Training/retrain person(s) (school)

**Assigned To:** FOIPP s.22

**Due Date:** s.22 Sep-2012

**Action Comments:** Review Asbestos Exposure Control Plan with Engineering Supervisors/Crew. Some crew not familiar with the recent changes to the Asbestos section of the Safety Manual. There was confusion over how to interpret asbestos decals. Inspection Checklist identified deficiencies but there was no action to correct them (i.e. missing asbestos decals)

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

**Corrective Action:** Action to improve maintenance program

**Assigned To:** FOIPP s.22

**Due Date:** s.22 Jun-2012 (Outstanding CA from March 2012 Annual OSH Audit - not corrected at the time of the Asbestos Audit)

**Action Comments:** Order Asbestos Emergency Kit: As Per Safety Manual 07.02.040 Each worksite identified as having asbestos containing material will maintain or have access to an Asbestos Emergency Kit. The equipment and material contained in the Asbestos Emergency Kit is listed in 07.02.040 Appendix B: Checklists for Asbestos Exposure and Removal.

To close the corrective action please open the following link:

<https://bcferries.FOIPP s.15>

Peter Anderson  
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**From:** Anderson, Peter  
**Sent:** July 25, 2012 4:37 PM  
**To:** FOIPP s.22 [redacted]  
**Cc:** Aslett, Kathleen; Wills, Stuart; de Koninck, Captain Al; Nettleton, Captain Gordon  
**Subject:** Asbestos Safety Audit Report - Tachek

**Attachments:** GI 1367 Asbestos Safety Audit Tachek Jun 2012.pdf  
Good afternoon Chief,

Please find the attached Asbestos Safety Audit report for the Tachek.

The findings itemized in this report will be captured in corrective action files in the the Medgate database. You will receive a separate email with links to track changes for each corrective actions. Please use these links to provide updates, closure details, and closure dates for each corrective action item.

Regards,  
Peter



GI 1367 Asbestos  
Safety Audit ...

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Tel: (250) ss. 15, 19, 22  
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## Asbestos Safety Audit

Vessel / Terminal: M.V. Tachek

Medgate File No.: GI 1367

Date: June 22 2012

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

### 2.0 Risk Assessments

Yes No

Notes:

|     |  |   |  |  |
|-----|--|---|--|--|
| 2.1 | Explain the risk assessment process for an asbestos spill. | Y |  | Supervisors have a good understanding of the process |
| 2.2 | How does the risk assessment affect the cleanup process?   | Y |  |  |

### Training

|     |   |            |  |   |
|-----|---|------------|--|---|
| 3.1 | Do workers have asbestos contingency training?  | Y          |  |   |
| 3.2 | Was the furthest date of contingency training older than 5 years?   | Y          |  | s.22 has recent 2 day contingency training. One CE last training 2003. One ERA last training 2005 |
| 3.3 | Does the supervisor check that staff has contingency training before assigning asbestos related work?             | FOIPP s.22 |  |   |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |            |  |   |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |   |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tyvek suit?                                    |            |  |   |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |            |  |   |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |            |  |   |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |            |  |   |

| 4.0 | Identification of ACM   | Yes | No | Notes:   |
|-----|---|-----|----|--|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   |     | N  | Some misunderstanding of the meaning of the green decals   |
| 4.2 | Does the decaling correspond with the insulation survey?  | Y   |    | Many decals were noted as missing in Aug 2011 Asbestos Checklist. Not corrected at that time. Decals have been replaced since this audit was performed |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               | Y   |    | Annotations regarding ACM discoveries on Deck 2 scupper lines Jan 2009. No other discoveries   |
| 4.4 | Is there any signage on recent new ACM discoveries?   | Y   |    |  |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | Y   |    |  |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> |     | N  | Last Insulation survey dated Aug 2009  |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | Y   |    | Signage has been posted in crew areas (engine room, Captain's cabin, other offices)  |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               | Y   |    |  |

| 5.0 | Inspection Checklist   |   |   | Notes:   |
|-----|--|---|---|--|
| 5.1 | Is the inspection checklist accurate and includes annotations?       | Y |   | Annotations noted on checklist   |
| 5.2 | Has the checklist been completed on a quarterly basis?               | Y |   |  |
| 5.3 | Is the material essentially in the same condition as it was applied? |   | N | Some ACM are noted as "moderate" condition and are on a watch status   |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?              |   | N | Crew not very familiar with the recent changes to the Asbestos Exposure Control section of the Safety Manual |





## Asbestos Safety Audit

|            |   |            |
|------------|---|------------|
| <b>5.5</b> | <p>Is the supervisor aware of requirements for a moderate score on the checklist?</p> <p><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i></p> | FOIPP s.22 |
|------------|---|------------|

### 5.0 Inspection Checklist

Notes:

|            |  |            |
|------------|--|------------|
| <b>5.6</b> | <p>Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?</p> <p><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i></p> | FOIPP s.22 |
|------------|--|------------|

### 6.0 Safe Work Procedures

Notes:

|            |   |            |  |                         |
|------------|---|------------|--|-------------------------|
| <b>6.1</b> | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | Y          |  | No Hepa stored on board |
| <b>6.2</b> | Are there written work procedures available for workers prior to a clean up?  | Y          |  | Safety Manual           |
| <b>6.3</b> | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |                         |
| <b>6.4</b> | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |                         |



## Asbestos Safety Audit

### 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |  |            |   |  |
|-----|--|------------|---|--|
| 7.1 | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |   |  |
| 7.2 | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |   |  |
| 7.3 | Does the engineering crew know the location of the asbestos emergency kit?                                   |            | N | There is no kit. Some supplies are available in stores area                                      |
| 7.4 | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? |            | N | Tyvek suits are available, but many items from the kit inventory list are not available on board |

### 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 7.5 | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |  |  |
|-----|---|------------|--|--|

### 8.0 Asbestos Disposal Process Notes:

|     |  |            |  |  |
|-----|--|------------|--|--|
| 8.1 | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22 |  |  |
| 8.2 | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |            |  |  |
| 8.3 | Can the supervisor describe the disposal method for non-friable asbestos?  |            |  |  |
| 8.4 | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |            |  |  |
| 8.5 | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | Y          |  |  |



## Asbestos Safety Audit

Peter Anderson

June s.22 2012

Regional Safety Officer

Date

FOIPP s.22

June s.22 2012

FOIPP s.22

Date



## Asbestos Safety Audit

Vessel / Terminal: M.V. Tenaka  
2012

Medgate File No.: GI 1415

Date: July s.22

### 1. Asbestos Containing Material (ACM):

ACM is defined as any manufactured article or other material which contains 1% or more asbestos by weight at the time of manufacture, or which contains 1% or more asbestos as determined in the National Institute for Occupational Safety and Health Manual of Analytical Methods (see further details in OH&S Regulatory Guidelines G6.1)

**Acronyms:** HEPA - High Efficiency Particulate Air (filter), NOP Notice of Project (WSBC Form 52E49), SOP Safe Operating Procedure, OH&SR Occupational Health & Safety Regulation, WCA Workers' Compensation Act.

### 2.0 Risk Assessments

Yes No

Notes:

|     |  |   |  |   |
|-----|--|---|--|---|
| 2.1 | Explain the risk assessment process for an asbestos spill. | Y |  |   |
| 2.2 | How does the risk assessment effect the cleanup process?   | Y |  | Well understood. Abatement work on the vessel is very rare. |

### Training

|     |   |            |  |  |
|-----|---|------------|--|--|
| 3.1 | Do workers have asbestos contingency training?  | Y          |  |  |
| 3.2 | Was the furthest date of contingency training older than 5 years?   | Y          |  | s.22 has recent 2 day contingency training, however, s.22 often used for this vessel. Many of these s.22 have training more than 5 years in the past |
| 3.3 | Does the supervisor check that staff have had contingency training before assigning asbestos related work?        | FOIPP s.22 |  |  |
| 3.4 | Does the Supervisor check that staff have had respiratory training before assigning asbestos related work?        |            |  |  |
| 3.5 | Does the supervisor ensure that staff are clean shaven [respiratory mask] before assigning asbestos related work? |            |  |  |
| 3.6 | Has the Supervisor demonstrated the correct way to wear and seal a Tryvek suit?                                   |            |  |  |
| 3.7 | Does the supervisor know how to complete and submit a Notice of Project?  |            |  |  |
| 3.8 | Does the Supervisor know how to complete a chain of custody [sampling for lab results]?                           |            |  |  |
| 3.9 | Does the Supervisor have a good understanding of the process of Asbestos Contingency?                             |            |  |  |

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| 4.0 | Identification of ACM   | Yes | No | Notes:   |
|-----|---|-----|----|--|
| 4.1 | Can the workers explain/identify the symbol identification decal for ACM?   | Y   |    |  |
| 4.2 | Does the decaling correspond with the insulation survey?  | Y   |    | All crew and passenger areas have correct signage  |
| 4.3 | Are there recent annotations in the insulation survey indicating new ACM discoveries?                               | Y   |    |  |
| 4.4 | Is there any signage on recent new ACM discoveries?   |     | N  | There are no new discoveries since the last Survey was completed   |
| 4.5 | Are there any quarterly inspections noted in the ACM file on board?   | Y   |    |  |
| 4.6 | Is the Insulation report current? <i>Note: Report must be updated every 2.5 years or following major site work.</i> | Y   |    | Last survey May 2010. Old survey and checklist (May 2009) on site – corrected at time of inspection – Current Survey and Checklist found. Removed old copies |
| 4.7 | Is there current labelling in the crew only areas, warning crew of the presence of known asbestos?                  | Y   |    |  |
| 4.8 | Is the extent of asbestos containing materials clearly distinguished by the decaling?                               | Y   |    |  |

| 5.0 | Inspection Checklist   | Notes: |  |  |
|-----|--|--------|--|--|
| 5.1 | Is the inspection checklist accurate and includes annotations?       | Y      |  |  |
| 5.2 | Has the checklist been completed on a quarterly basis?               | Y      |  | Inspections are completed, but crew have not been using the Checklist that was provided by the consultant. Corrected on site – RSO fwd electronic copy of Insulation Checklist |
| 5.3 | Is the material essentially in the same condition as it was applied? | Y      |  |  |
| 5.4 | Can the crew describe Good / Moderate & Poor condition?              | Y      |  |  |

|            |   |            |
|------------|---|------------|
| <b>5.5</b> | <p>Is the supervisor aware of requirements for a moderate score on the checklist?</p> <p><i>Notation in the remarks column specifying why material was ranked moderate, what further condition would warrant corrective action, Photo attachment to the report.</i></p> | FOIPP s.22 |
|------------|---|------------|

## 5.0 Inspection Checklist

Notes:

|            |  |            |
|------------|--|------------|
| <b>5.6</b> | <p>Is the supervisor aware of the necessary action when there is an indication of material in the POOR condition?</p> <p><i>Recommendation for immediate action or for future repair, action required for repair or removal, or material placed back into a watch status, any areas indicated as POOR a work order or other details must be indicated.</i></p> | FOIPP s.22 |
|------------|--|------------|

## 6.0 Safe Work Procedures

Notes:

|            |   |            |  |                                |
|------------|---|------------|--|--------------------------------|
| <b>6.1</b> | Prior to use of any HEPA Vacuum are workers aware of checking the DOP certification status?                               | Y          |  | Do not have a Hepa Vac on site |
| <b>6.2</b> | Are there written work procedures available for workers prior to a clean up?  | Y          |  |                                |
| <b>6.3</b> | If an outside contractor is conducting a clean up is the supervisor aware of the need to review the safe work procedures? | FOIPP s.22 |  |                                |
| <b>6.4</b> | Is supervisor aware that a contractor needs to complete a Notice of Project?  |            |  |                                |

## 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |  |            |  |                            |
|-----|--|------------|--|----------------------------|
| 7.1 | Is the supervisor aware of the non-emergency flow chart for the abatement process?                           | FOIPP s.22 |  |                            |
| 7.2 | Is the supervisor aware of the flow chart for a suspected disturbance/spill for the abatement process?       |            |  |                            |
| 7.3 | Does the engineering crew know the location of the asbestos emergency kit?                                   | Y          |  | Kit sighted.               |
| 7.4 | Does the asbestos emergency kit contain the required materials as specified in the safety manual 07.02.040B? | Y          |  | Kit has complete inventory |

## 7.0 ACM Abatement for maintenance / Repairs Yes No Notes:

|     |   |            |  |  |
|-----|---|------------|--|--|
| 7.5 | Does the supervisor understand the process for requesting a lab test to determine/confirm asbestos content? | FOIPP s.22 |  |  |
|-----|---|------------|--|--|

## 8.0 Asbestos Disposal Process Notes:

|     |  |            |  |  |
|-----|--|------------|--|--|
| 8.1 | Is the supervisor aware that waste asbestos must be treated as "solid hazardous waste"?  | FOIPP s.22 |  |  |
| 8.2 | Can the supervisor describe how to dispose of any asbestos material and related contaminated material? Safety Manual 07.02.040 |            |  |  |
| 8.3 | Can the supervisor describe the disposal method for non-friable asbestos?  |            |  |  |
| 8.4 | Can the Chief Engineer describe their responsibilities as it applies to asbestos?  |            |  |  |
| 8.5 | Can the engineering personnel describe their responsibilities as it applies to asbestos?                                       | Y          |  |  |



## Asbestos Safety Audit

Peter Anderson

July s.22 2012

Regional Safety Officer

Date

FOIPP s.22

July s.22 2012

FOIPP s.22

Date



**Aslett, Kathleen**

**From:** Aslett, Kathleen  
**Sent:** July s.22 2012 1:58 PM  
**To:** Lasell, Roger  
**Subject:** RE: Asbestos Safety Audit 2012

FOIPP s.22

Kathleen Aslett  
Manager, Occupational Safety & Health  
The Atrium  
500-1321 Blanshard Street  
Victoria, BC  
V8W 0B7

250- ss. 15, 19, 22

250-

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[kathleen.aslett@bcferries.com](mailto:kathleen.aslett@bcferries.com)

[www.bcferries.com](http://www.bcferries.com)

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**From:** Lasell, Roger  
**Sent:** July s.22 2012 1:43 PM  
**To:** Queen of Alberni, Engineering  
**Cc:** FOIPP s.22 Aslett, Kathleen  
**Subject:** Asbestos Safety Audit 2012

Hi FOIPP s.22

On s.22 July 2012 - approx s.22, I will be onboard conducting an Asbestos Safety Audit. I will be reviewing the following:

- Risk Assessment process
- Training
- Identification of ACM
- Inspection checklist
- Safe work procedures
- ACM abatement for maintenance/repairs
- Asbestos disposal process

The process includes interviewing personnel and asking some questions with regards to the above list.

I will also be reviewing the current signage to ensure all areas have the appropriate signage indicators.

The audit should take 1 to 1.5 hours.

Thanks,

Roger Lasell  
Safety Officer, South Coast  
British Columbia Ferry Service Inc.

Office: ss. 15, 19, 22

Cell: 6

[roger.lasell@bcferries.com](mailto:roger.lasell@bcferries.com)

[www.bcferries.com](http://www.bcferries.com)

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**Aslett, Kathleen**

**From:** Aslett, Kathleen  
**Sent:** September 06, 2012 9:30 AM  
**To:** Johnston, Darren  
**Subject:** IDLH REPORT



IDLH Report Sep  
2012.doc (43 K...

Updated version. Good to go? Will you be on the Pre meeting call today? Mel had said you wanted to be there?

Kathleen Aslett  
Manager, Occupational Safety & Health  
The Atrium  
500-1321 Blanshard Street  
Victoria, BC  
V8W 0B7

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**Date** September 4, 2012  
**To** Members of the Senior Joint Occupational Safety & Health Committee  
**From** Kathleen Aslett, Manager Occupational Safety & Health  
**Subject** IDLH Quarterly update Report

---

OSH continues to conduct in-depth Inspections at the worksites with a focus on the Asbestos Management (Hazardous Materials Management) Program. In the last 3 months (June/July/August) 10 Audit/Inspections were completed.

**Vessels Inspected**

|                    |                       |
|--------------------|-----------------------|
| Queen of Alberni   | Tachek                |
| Quinitsa           | Mayne Queen           |
| Tenaka             | Bowen Queen           |
| Powell River Queen | North Island Princess |
| Queen of Burnaby   | Queen of Nanaimo      |

**Findings**

- *Decaling* either removed or painted over not replaced and overlooked during quarterly inspections. RSO's are assisting in the re-decaling as required.
- *Emergency response kits* either absent or missing key components (not being included in inspection process) Crew unfamiliar with Emergency Response equipment and duties (training-refresher)
- Lack of understanding of company *Safety Manual Emergency Response Plan*
- *Dated Training*; original contingency training is often years ago and the lack of updated training or refresher training being offered, seasoned crew find they are unprepared to respond to a spill or failing ACM material incident with knowledge and confidence.
- *Deficiencies*, failing material, while noted on checklist/inspection, no plan of action to address it were noted or executed.
- OSH Officers assisted in review of surveys and checklists to effectively decal the ship. Review of SMS policy, Emergency response kits, and follow up attendance for inspections is assisting.
- The Nanaimo, Quinitsa & PRQ, were all cited for full compliance and good ACM Management, no Corrective actions were issued.

**Recommendation:** These observations be included for consideration in the Terms of Reference in the Working Group's area of review.

**Aslett, Kathleen**

---

**From:** Aslett, Kathleen  
**Sent:** September 06, 2012 9:34 AM  
**To:** Johnston, Darren  
**Subject:** RE: IDLH REPORT

Done

Kathleen Aslett  
Manager, Occupational Safety & Health  
The Atrium  
500-1321 Blanshard Street  
Victoria, BC  
V8W 0B7  
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**From:** Johnston, Darren  
**Sent:** September 06, 2012 9:33 AM  
**To:** Aslett, Kathleen  
**Subject:** Re: IDLH REPORT

Yes I will be there on call - go ahead send report

---

**From:** Aslett, Kathleen  
**To:** Johnston, Darren  
**Sent:** Thu Sep 06 09:29:50 2012  
**Subject:** IDLH REPORT

<<IDLH Report Sep 2012.doc>>

Updated version. Good to go? Will you be on the Pre meeting call today? Mel had said you wanted to be there?

Kathleen Aslett

Manager, Occupational Safety & Health

12-12-07

The Atrium

500-1321 Blanshard Street

Victoria, BC

V8W 0B7

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**Aslett, Kathleen**

---

**From:** Aslett, Kathleen  
**Sent:** September 06, 2012 10:17 AM  
**To:** Christensen, Melanie; Collins, Mark; Deutsch, Peter; Dujmovic, Tony; Graham, Michael; Jan Florian; Johnston, Darren; Koloszko, Edward; Lee, Jeff; Marshall, Captain Jamie; Rowell, Guy; Rumsby, Keith; Shawna Walsh; Stasiuk, Walter; Storey, Corrine; Walsh, Shawna; Kaye, Mia; Scultety, Irene  
**Cc:** Ellen Oxman; Lamb, Marina; Smith, Shirley; Skarvig, Nikki; Foote, Mary Anne; Kaye, Mia  
**Subject:** IDLH Report for next weeks meeting

Please find a copy of the IDLH Report being presented at next weeks Committee meeting, for your pre reading pleasure.  
Regards

Kathleen Aslett  
Manager, Occupational Safety & Health  
The Atrium  
500-1321 Blanshard Street  
Victoria, BC  
V8W 0B7

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**Date** September 4, 2012  
**To** Members of the Senior Joint Occupational Safety & Health Committee  
**From** Kathleen Aslett, Manager Occupational Safety & Health  
**Subject** IDLH Quarterly update Report

---

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**Vessels Inspected**

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| Quinitsa           | Mayne Queen           |
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| Queen of Burnaby   | Queen of Nanaimo      |

**Findings**

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- Lack of understanding of company *Safety Manual Emergency Response Plan*
- *Dated Training*; original contingency training is often years ago and the lack of updated training or refresher training being offered, seasoned crew find they are unprepared to respond to a spill or failing ACM material incident with knowledge and confidence.
- *Deficiencies*, failing material, while noted on checklist/inspection, no plan of action to address it were noted or executed.
- RSO's are helping.22 in reviewing of SMS policy, Emergency response kits, and follow up attendance for inspections.
- The Nanaimo, Quinitsa & PRQ, were all cited for full compliance and good ACM Management, no Corrective actions were issued.

**Recommendation:** These observations be included for consideration in the Terms of Reference in the Working Group's area of review.





**MEMBERS/EX-OFFICIO MEMBERS IN ATTENDANCE:**

|                        |   |
|------------------------|---|
| Darren Johnston        | Co-Chair, Executive Director, Safety & Security Department (Atrium)   |
| Jan Florian            | Co-Chair, Rep., Northern Islands (Denman Island)  |
| Kathleen Aslett        | Manager, Occupational Safety & Health   |
| Peter Deutsch          | Manager, Compliance and Certification, Fleet Maintenance Unit (Richmond)                                    |
| Michael Graham         | Rep., Richmond Region (BCF Richmond)  |
| Ed Koloszek            | Rep., North Coast Regional Safety Committee (Prince Rupert) & BCFMWU<br>Provincial Executive Representative |
| Jeff Lee               | Ships Officer Component, Licensed Rep. (Little River)   |
| Captain Jamie Marshall | Vice President, Fleet Operations (Atrium)   |
| Guy Rowell             | Rep., Southern Islands Regional Safety Committee (Long Harbour)   |
| Keith Rumsby           | Rep., South Coast Regional Safety Committee (Swartz Bay)  |
| Walter Stasiuk         | Manager Safety Administration   |
| Corrine Storey         | Vice President, Customer Services (Atrium)  |

**ALTERNATES IN ATTENDANCE:**

|                 |   |
|-----------------|---|
| Mark Wilson     | for: Vice President, Engineering (Atrium)                                 |
| Carmen Peterson | for: Shawna Walsh, Rep., Central Coast Regional Committee (Departure Bay) |

**MEMBERS NOT IN ATTENDANCE:**

|              |  |
|--------------|--|
| Mark Collins | Vice President, Engineering (Atrium)                   |
| Shawna Walsh | Rep., Central Coast Regional Committee (Departure Bay) |

**EX-OFFICIO MEMBERS:**

|                 |   |
|-----------------|---|
| Mike Corrigan   | President & Chief Executive Officer                         |
| Chris Abbott    | President, BC Ferry & Marine Workers' Union                 |
| Rob Clarke      | Executive Vice President, Finance & Chief Financial Officer |
| Kathleen Aslett | Manager, Occupational Safety & Health                       |
| OSH Officers    | Advisors to Regional Safety Committees                      |

**GUESTS:**

Brad Judson, Manager Safety Management System

**RECORDING SECRETARY:** Melanie Christensen

**LOCATION:** The Atrium, Meeting Room 6A, Victoria BC

**TIME:** 9:30 hrs

## SENIOR JOINT SAFETY & HEALTH COMMITTEE

### BCF's Omissions from August minutes:

Meeting minutes accepted as written.

### ACTION ITEMS (also refer to MATRIX)

#### 1. **SJSHC 12 06 01 Asbestos Audit from IDLH Report**

D. Johnston received confirmation of BCFMWU's nominees who will participate in the Asbestos working group. D. Johnston will forward the draft Asbestos Working Group's Terms of Reference to the SJSHC committee as well as the complete working group's list of names. J. Constable, upon return [FOI PP s.22] will schedule the initial working group meeting.

Status: Open

not responsive to request

**SENIOR JOINT SAFETY & HEALTH COMMITTEE**

not responsive to request

**ROTATING QUARTERLY TOPICS**

**SJSHC 10 07 02 IDLH (Immediate Danger to Life and Health)**

K. Aslett explained the IDLH quarterly report to the committee.

not responsive to request

## SENIOR JOINT SAFETY & HEALTH COMMITTEE

not responsive to request

FOIPP s.22

**Darren Johnston**

*Co-Committee Chairperson*

FOIPP s.22

**Jan Florian**

*Co-Committee Chairperson*

**Note: Please use the following Committee Acronyms for reporting:**

*Committee Acronym – YY MM & Numerical Sequence of Item – Subject Title*

South Coast Regional Safety Committee: **SRSC**

Central Coast Regional Safety Committee: **CRSC**

North Coast Regional Safety Committee: **NRSC**

Southern Islands Regional Safety Committee: **SIRSC**

Northern Islands Regional Safety Committee: **NIRSC**

Richmond Regional Safety Committee: **RRSC**

Senior Joint Safety & Health Committee: **SJSHC**

Senior Joint Safety Health Committee  
ACTION ITEMS

| Action                    | Item   | Responsible | Due Date  |
|---------------------------|--|-------------|-----------|
| A1                        | JSJHC 12 06 01 Asbestos Audit from IDLH Report   | D. Johnston | 10-Oct-12 |
| not responsive to request |  |             |           |
| Quarterly                 | D IDLH (Immediate Danger to Life & Health), CDLM (Chronically Dangerous to Life & Health)<br>June/ Sept Dec/ Mar | K. Aslett   | 12-Dec-14 |
| not responsive to request |  |             |           |

not responsive to request