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### GENERAL

This form covers documents needed in order to re-accredit your community for Superior Tanker Shuttle Service. Re-accreditation will be applied for 5 years. You should notify our office should resources change within that time period that would affect the ability of the community to maintain the level of accredited service. Please note that additional tests may be requested by our office prior to granting this re-accreditation.

The intent of completing this form is to demonstrate the Fire Departments ability to maintain the accredited flow rate for the specified duration at a test site. The following limits apply:

- For a fire hall accredited under the Dwelling Protection Grade (DPG) system, 200 IGPM (achieved within 5 minutes) should be provided for a period of 2 hours at a location 5km from a water supply point AND 8km from the accredited fire hall (or a lesser distance limited by the Fire Protection Area boundary).
- For a fire hall accredited under the Public Fire Protection Classification (PFPC) system, the previously accredited flow rate (400 IGPM minimum achieved within 5 minutes and accredited flow rate within 10 minutes) should be provided for the specific duration at a location 2.5km from a water supply point AND 5km from the accredited fire hall (or a lesser distance limited by the Fire Protection Area boundary).

In a community with multiple accredited fire halls, test results need only be provided for the most difficult scenario/fire hall. Furthermore apparatus hold-off times for testing should reflect the travel time from the supporting fire halls to the test location assuming all participating fire halls leave at the same time. Should a community be re-accrediting for both the DPG and PFPC system, 2 separate test sheets should be completed. Please contact Fire Underwriter Survey if you need to confirm the testing location or scenario.

### WHAT YOU NEED TO INCLUDE WITH YOUR APPLICATION:

Note: To	avoid delays, please supply all of the information listed below in a complete and organized format.	Location	FUS USE ONLY
	Section 1: Completed application form	Form	
	<b>Appendix A:</b> Completed FS4 form for each Fire hall in the Fire Protection Area and any contract fire halls used in the STSS accreditation	Form	
	<b>Appendix A:</b> Dry Hydrant maintenance record for each dry hydrant used in the STSS Accreditation (see form WS7)	Form	
	Appendix A: Completed Superior Tanker Shuttle Service Accreditation Test form	Form	
	Fire department Standard Operating Procedures for water shuttle operations	Attachment	
	Records of past STSS training	Attachment	
	Records of past incidents where STSS was used (if available)	Attachment	
	Automatic Aid agreements (if applicable)	Attachment	
	Pictures of test site	Attachment	



**STSS Re-Accreditation Application** 

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# Section 1: Application form

### 1. Fire Department Information

Name of Fire Department:					
Fire Chief Name:: E-mail Address:					
Address:					
Province:	Post Code:	Phone:	Fax: ( )		

### 2. Authority Having Jurisdiction (AHJ) Information

Name of area:					
Contact Name: E-mail Address:					
Address:					
Province:	Post Code:	Phone:	Fax: ( )		

### 3. Testing Site Information

GPS Location of test site:							
Latitude:	Longitude:	Datun	1.				
Fire hall Name:							
Address:							
Province:	Post Code:	Phone: ( )	Fax: ( )				

### 4. General Information

Has there been any change to the Fire Protection Area (FPA)? (if yes, please provide updated map in GIS format)
Have there been any additions/removal/re-location of fire halls in the FPA?
Has the water system been expanded? (if yes, please provide updated map in GIS format)

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Has there been a significant change in staffing?

Has there been a significant change in apparatus?

Has there been any change to agreements that could affect the STSS accreditation?

### Declaration of Authority Having Jurisdiction (AHJ) or Fire Chief

I hereby declare that the information contained herein is true and accurate. I have read and understood this form. Superior Tanker Shuttle Service accreditation is designed to comply with the Superior Tanker Shuttle Service Accreditation Protocol. I understand that failure to comply with any or all items in the Protocol, or providing false information, renders this application and subsequent recognition null and void.

Authority Having Jurisdiction Signature:	Date:
Authority Having Jurisdiction Name (print):	AHJ Title:
Witness Signature:	Date:
Witness Name (print):	

LEAVE BLANK – FUS USE ONLY							
Date Application Received	Date Application Completed						
Received by							

Please submit the application to:

Fire Underwriters Survey, Unit 101, 3999 Henning Drive, Burnaby, BC, V5C 6P9.

For further information please contact admin@fireunderwriters.ca (1-800-665-5661).



**STSS Re-Accreditation Application** 

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Appendix A



Please fill out this form, save and email the form back to our office, we may also request a signed hard copy.

Local Government Legal Name:			
Fire Department Name: Date Completed: FUS Office Use Only:			
Fire Hall Name	#	Address	Nearest cross street

Fire Hall Name	#	Address	Nearest cross street

Number of Fire Fighters dedicated to this Fire Hall								
Career Career Career Volunteer Volunteer Volunteer								
Chiefs	Officers	Fire Fighters	Chiefs	Officers	Fire Fighters			

For career fire fighters on duty, what is the minimum on-duty staffing?

					Pump Capacity	Tank Capacity
Туре	Identifier	Manufacturer	Year	ULC #	lgpm	I.Gal
1 <sup>st</sup> Line Pumper						
2 <sup>nd</sup> Line Pumper						
Reserve Pumper						
1 <sup>st</sup> Line Ladder						
Reserve Ladder						
1 <sup>st</sup> Line Tender						
2 <sup>nd</sup> Line Tender						
Initial Attack						

Within the response area of this fire hall, are there any Dwellings (SFR or duplex) beyond 8 km by road?

Within the response area of this fire hall, are there any structures other than Dwellings (SFR or duplex) beyond 5 km by road?

Western Canada	Ontario	Quebec	Atlantic Canada
3999 Henning Drive	150 Commerce Valley Drive West	1611 Cremazie Boulevard East	238 Brownlow Avenue, Suite 300
Burnaby, BC V5C 6P9	Markham, ON L3T 7Z3	Montreal, QC H2M 2P2	Dartmouth, NS B3B 1Y2
1 (800) 665-5661	1 (800) 268-8080	1 (800) 263-5361	1 (800) 639-4528



# Superior Tanker Shuttle Service Accreditation Test Form

## **Basic Information**:

Test Conducted by:	Test Date:
--------------------	------------

Municipality:	Fire Department:

Automatic Aid Department:

Describe where aid comes from and travel distance:

Refill Sites used during test:

	Distance from Test Site to Refill
Refill Site Number	Site

Refill Sites Available to the Fire Department:

			Type of Water	Water	Road Travel Distance
		Location of Refill	Source	Available at	to
	Name	Sites	available for refill	Source	Fire Station (km)
1					
2					
3					
4					
5					



Fire Underwriters Survey A SERVICE TO INSURERS AND MUNICIPALITIES 3999 Henning Drive Suite 101 Burnaby, British Columbia V5C 6P9 T: 604.609.4146 Toll Free: 1.800.665.5661 F: 604.688.6986



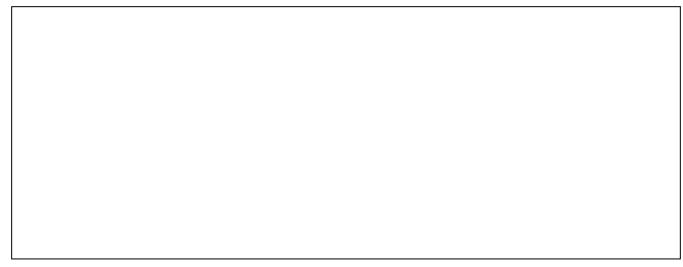
Test Sites Available to the Fire Department:

				Road Travel Distance
		Distance to	Latitude &	to
Test Site	Location of Test Sites	Fire Station (km)	Longitude	Fire Station (km)
1				
2				
3				
4				
5				
	•	•	•	·

# Location of Chosen Test Site:

# Why was the Test Site Chosen?

### Comments/Sketches





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Description of Refill site(s) used during the test (noting access issues, improper turnaround, signage, loading platforms)

If pressurized fire hydrants are used as a refill site, were flow tests conducted?

Tanker Start Point for Chosen Test Site:

Tanker	Location	Distance from Start Point to Test Site (km)	Capacity at Start of Test	Port-a-Tank Equipped



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Refill Sites used during test:

Nomo	Location	Distance from Test Site to Refill Site	Type of Water Source	Water Available at Source
Name	Location	She to Kenni She	Source	at Source

**Roadway Information:** 

Posted Speeds of Roadway to Refill Site(s):

Maximum Allowable Travel Speed during Test:

RCMP Notified:

Community Notified:

Lights and Sirens used during test:

Description of Roadway used during test:



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### **Test Data:**

Initial Available Water at Test Site:	
Test Start Time (on the day of the test):	
Nozzle Diameter (orifice size):	Coefficient:
Time 200 IGPM was first flowed as read fr	om the stopwatch:
Pitot reading:	
Suction Hose Diameter:	Suction Hose Material:
Suction Hose Length:	Suction Hose Lift during test:
Portable Pumps and pumping capacity used	l during test (if any):
Describe how the department connects port worksheet):	cable tanks together (if not known from Portable-Tank



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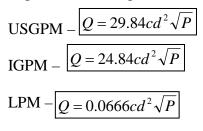


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# **Test Reading Data:**

Time (minutes)	Pitot Reading	Calculated Flow Rate (IGPM)	Discharge Gauge Reading	RPM	Suction Gauge Reading	Engine Temp.	Handheld Pitot Reading
(when 200 Igpm was reached)							
+5							
+10							
+15							
+20							
+25							
+30							
+35							
+40							
+45							
+50							
+55							
+60							
+65							
+70							
+75							
+80							
+85							
+90							
+95							
+100							
+105							
+110							
+115							
+120							

Hazen-Williams Flow Calculation Imperial results require inches and PSI. Metric measurements require mm and kPa.





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T Unit #	Capacity	Station	Start Location	<b>Refill Site</b>

	Arrival	Departure	Quantity	Travel time	Drop time
1st Cycle					
2nd Cycle					
3rd Cycle					
4th Cycle					
5th Cycle					
6th Cycle					
7th Cycle					

T Unit #	Capacity	Station	Start Location	<b>Refill Site</b>

	Arrival	Departure	Quantity	Travel time	Drop time
1st Cycle					
2nd Cycle					
3rd Cycle					
4th Cycle					
5th Cycle					
6th Cycle					
7th Cycle					



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T Unit #	Capacity	Station	Start Location	<b>Refill Site</b>

	Arrival	Departure	Quantity	Travel time	Drop time
1st Cycle					
2nd Cycle					
3rd Cycle					
4th Cycle					
5th Cycle					
6th Cycle					
7th Cycle					

T Unit #	Capacity	Station	Start Location	<b>Refill Site</b>

	Arrival	Departure	Quantity	Travel time	Drop time
1st Cycle					
2nd Cycle					
3rd Cycle					
4th Cycle					
5th Cycle					
6th Cycle					
7th Cycle					



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### GENERAL

In order for Fire Underwriters Survey to recognise a dry hydrant for fire insurance grading purposes, certain eligibility standards must be met. The following form should be completed and returned indicating that these standards are being adhered to. If you do not supply all the requested information, your application cannot be reviewed.

NOTE: Recognition of a dry hydrant by Fire Underwriters Survey implies that the dry hydrant is suitably designed to meet the minimum criteria as a water supply for fire insurance grading purposes.

# WHAT YOU NEED TO INCLUDE WITH YOUR APPLICATION:

Note: To format.	avoid delays, please supply all of the information listed below in a complete and organized	Location	FUS USE ONLY
	Section 1: Completed application form	Form	
	<b>Appendix A:</b> Inspection and Maintenance Record (one initial copy and subsequently annually)	Form	
	Photographs showing the entire site in relation to the water source, and photos of the water source.	Attachment	
	Flow test results demonstrating flow capacity through pumper apparatus. Flow tests will be carried out with a pitot gauge, which is calibrated annually, and witnessed by the AHJ or Fire Chief (these will be indicated on the "Inspection and Maintenance Record". Note that as required by NFPA 1142, 2007 edition, section 8.3.3 – <i>All dry hydrant</i> <i>systems shall be designed and constructed to provide a minimum flow of</i> <i>3800L/min</i> , i.e. 835IGPM.	Form	
	Fire department Standard Operating Procedures for use of static water supplies.	Attachment	
	Water Use Agreement	Attachment	
	Dry fire hydrant drawings/plans/sketch (if available)	Plan sheet/ drawing	



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## **Section 1: Application form**

### 1. Dry Hydrant Installation Information

GPS Location:								
Latitude:		Longitude:		: Datum:		Datum:		
Date of Installation:				Name of Ins	tallation	Company:		
Contact Name:				E-mail Address:				
Address:								
City Town Village	Province:		Post Code:		Phone:		Fax:	
					( )		( )	

### 2. Authority Having Jurisdiction (AHJ) Information

Name of Organization:					
Contact Name:			E-mail Addr	ess:	
Address:					
City Town Village	Province:	Post Code:		Phone: ( )	Fax: ( )

#### 3. Fire Department Information

Name of Fire Department						
Fire Chief Name:: E-mail Address:						
Address:						
City Town Village	Province:	Post Code:		Phone: ( )		Fax: ( )

As required by NFPA 1142, 2007 edition, section 8.7.1 – *Dry hydrants shall be inspected at least quarterly and maintained as necessary to keep them in good operating condition*. Fire Underwriters Survey (FUS) requires that all maintenance records from Appendix A be provided to your local FUS office on an annual basis in order to maintain recognition for fire insurance grading purposes.



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#### 4. Dry Hydrant Maintenance Information

Maintenance Frequency:			Name of Company/Organization responsible for maintenance:			
Contact Name:			E-mail Addr	ess:		
Address:						
City Town Village	Province:	Post Code:		Phone: ( )		Fax: ( )

### 5. Dry Hydrant Hardware description (Note that additional information may be required)

Diameter of all pipe sizes (inches):	
Pipe material used:	

### Declaration of Authority Having Jurisdiction (AHJ) or Fire Chief

I hereby declare that the information contained herein is true and accurate. I have read and understood this form. This alternative water supply project is designed to comply with, and be maintained in accordance with all applicable standards and design specifications. I understand that failure to comply with any or all of the applicable standards, or providing false information, renders this application and subsequent recognition null and void.

The dry hydrant described herein will be made continuously accessible for fire-fighting apparatus yearround and without exception. The dry hydrant will be tested and maintained in accordance with the frequency specified in NFPA 1142, Water Supplies for Suburban and Rural Fire Fighting, 2007 edition.

The minimum capacity that is available on a year-round basis is 24,000 Igal or sufficient capacity to provide the maximum Required Fire Flow for the required duration (see Water Supply for Public Fire Protection, 1999 – Fire Underwriters Survey) of any building within 300m hose-lay of the dry hydrant.

All required planning, permits, design processes, and water use agreements were completed for the dry hydrant installation.

It is the responsibility of the AHJ to immediately notify the Fire Underwriters Survey of:

- any interruption in access to the dry hydrant, or
- any interruption in the access to apparatus with draft capacity, or
- any interruption in the available source of water supply (note that as required by NFPA 1142, 2007 edition:
  - Section 7.1.5 To be acceptable, water supply sources shall maintain the minimum capacity and delivery requirements on a year-round basis, based on the 50-year drought cycle.
  - Section 8.5.1 There shall be not less than 2ft (0.6m) of water above the strainer and not less than 1ft (0.3m) below the strainer.)



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The dry hydrant described herein is designed in accordance with NFPA 1142, Water Supplies for Suburban and Rural Fire Fighting, 2012 edition.

Authority Having Jurisdiction Signature:	Date:
Authority Having Jurisdiction Name (print):	AHJ Title:
Witness Signature:	Date:
Witness Name (print):	

LEAVE BLANK – FUS USE ONLY				
Date Application Received	Date Application Completed			
Received by				



Dry Hydrant WS7 - Dry Hydrant Recognition Form

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# Appendix A

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# Dry Hydrant Inspection and Maintenance Record

GPS Location:					
Latitude:	Longitude:	Datum:			
Inspection Date:		By:			
Depth of water from surface to top of strainer (ft):		Greater than 2 ft:			
			Yes	🗆 n	0
Environmental conditions affecting hydrant (si					
Erosion around hydrant, access road, bank of water supply:					
System back-flushed?					
□ Yes □ no <u>Pre</u>	Yes no <u>Problems found:</u>				
Flow available by actual test (IGPM):					
Weed control measures taken:					
Condition of access road, drainage:					
Sign present:					
uyes uno <u>Cla</u>	arity of information on sign:				
Maintenance performed, special observations	, remarks:				
Signed AHJ or Fire Chief:			Date:		