

INTER-OFFICE MEMORANDUM

TO:

FINANCE MANAGEMENT COMMITTEE

DATE: 2015 June 17

FROM:

DIRECTOR PARKS, RECREATION &

CULTURAL SERVICES

SUBJECT: RESTORATION OF THE HERITAGE WATEROUS STEAM ENGINE AT

BURNABY VILLAGE MUSEUM

The purpose of this memorandum is to provide the Committee with further information on the funding request to restore the rare Canadian made Waterous Steam Engine at Burnaby Village Museum. The engine exhibit is located adjacent to the blacksmith's shop on site at the Museum. For clarification, attached are photos of the exhibit which show the condition of the engine. Staff received the following cost breakdown from Mr. Shane Carr, a BC based restorer who is uniquely qualified to perform the work from a safety and authenticity perspective:

Sand blasting	\$2,500
Valve rod and lever	\$3,500
Piston rod and packing	\$1,200
Repair and or replace cross head shoes	\$3,000
Renew connecting rod, split bushings and pin	\$3,500
Set up and re-bore main cross head bore in the main casting	\$4,500
Refit crank shaft bushings and connecting rod bushings	\$3,500
Rebuild governor	\$3,000
Supply new governor belt	\$300
Rebuild cordless valve	\$3,000
Replace missing and or broken parts from the main casting	_\$1,800 _
Reassemble	\$8,000
Materials such as paint, primer, nuts and bolts,	<u>\$7,200</u>
babbitt, steel, patterns, gaskets	

Total cost for job:

\$45,000 plus tax.

Mr. Carr explained when providing the cost breakdown that when antique equipment and machinery is rebuilt, you have to make every single part yourself as there are usually no drawings or records of how the parts were made. He needs to create drawings, patterns and templates to make the new parts, which consumes many hours and incurs costs such as access fees for online museum records, etc. It should be noted that this work on the engine is a one-time major restoration and will last us for many years of regular operation. The work is a major restoration to ensure safe operation of the exhibit for the foreseeable future. Please let me know if there is any further information required by the Committee in order to approve this expenditure.

Dave Ellenwood

Director Parks, Recreation & Cultural Services

DE:km

Attachments (2)

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