

**To:** Managers, Planning and Professional Services  
District Highways Managers  
Project Managers Paving  
Regional Geotechnical & Materials Engineers

**SUBJECT:** **COLD WEATHER PAVING**

**PURPOSE:**

In order for the Ministry to attain the optimum quality, during the cooler months, from new and recycled pavements close monitoring of the ambient air and road surface temperature will aid in the formulation of Rehabilitation and Paving schedules and completion dates.

**BACKGROUND:**

Paving and Rehabilitation projects have been carried out throughout the Province when the ambient air temperature has been below the temperature specified in Section 501 of the Standard Specifications. This leads to poorer compaction and lower densities and thus poorer pavement performance.

**POLICY:**

On all projects where paving, recycling existing pavement, or seal coating is carried out beyond the dates indicated in Table 1 below or when ambient air or surface temperatures fall below those indicated in Standards Specification Sections 501.23.02 (for paving) or Section 531.31 (for seal coat), the daily ambient air and road temperatures shall be monitored and recorded on the form H-0010 (attached). This information shall be forwarded weekly to the:

Pavement Research & Standards Officer.  
Geotechnical, Materials & Pavement Engineering Section  
4B-940 Blanshard Street, P.O. Box 9850 Stn. Prov. Govt.  
Victoria, BC, V8W 9T5

If the ambient air temperature or the road surface temperature are below that specified at the regular shift start time they shall be recorded as well as the regular shift start time. The time at which the regulating temperatures reach or surpass the required minimum shall also be recorded.

Should the air temperature fall below the required minimum, prior to the dates indicated in Table 1, the recording of the temperatures shall be carried out from that date that the cooler temperature occurs.

The start of shift temperatures shall be recorded from the dates indicated on Table 1 no matter what the start of shift temperature is until project completion.

Should the decision be made to pave, recycle or seal coat when the temperature(s) is below that specified, it shall be indicated on Form H-0010 who authorized the continuation of the work.

**FORM H-0010**

This form, a word document, is available on at the following address:

<http://gww.th.gov.bc.ca/gwwfoi/Content/Forms/FormsList/ManualHList.asp>

This form is a fill in type form with all the necessary fields shaded. Under the heading "REASON FOR COLD WEATHER PAVING" it should be indicated who authorized the paving.

A copy of the form is attached to this document.

**CONTACT:**

Michael E. Symons, Pavement Research & Standards Officer  
Geotechnical, Materials and Pavements Section  
Engineering Branch                      Phone: (250) 387-7717

***"Original Signed By"***

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M.F. Clark, P.Eng.  
Chief Engineer  
Engineering Branch

**TABLE 1****SUGGESTED CESSATION DATES****BY REGION AND AREAS**

REGION (Area)	BOTTOM LIFT		TOP LIFT		HOT IN-PLACE		SEAL COATING
South Coast							
N. & E. of Hope	September 30th		September 30th		August 31st		August 15th
Whistler Area	September 30th		September 30th		August 31st		August 15th
Remainder Of Region	Day	Night	Day	Night	Day	Night	
	Oct. 15th	Sept 30th	Oct. 15th	Sept. 30th	Oct 15th	Sept 30th	N/A
Thompson/ Okanagan	Sept 30th		Sept 15th		Sept 15 <sup>h</sup>		
Valleys							Sept 30th
High Ground Above 1200m							Aug 15th
Kootenays	Sept 15th		Sept 15th		Sept 15th		Low Aug 31st High Aug 15th
Central/ North East							
Pine Pass Area	Sept 1st		Sept 1st		Sept 1st		Aug 15th
Remainder	Sept 15th		Sept 15th		Sept 15th		Aug 15th (Sept 15th on Gravel)
North West							
Bulkley/Nass Lakes District	Sept 15th		Sept 15th		Sept 15th		Aug 15th
Skeena District & Stewart Area	Sept 30th		Sept 30th		Sept 30th		Sept 1st
Vancouver Island							
Victoria & Mid Island Dry Area	Oct 15th		Oct 15th		Oct 15th		N/A
Remainder	Sept 30th		Sept 30th		Sept 30th		Aug 15th

**TABLE 2****SPECIFIED TEMPERATURE LIMITATIONS**

Temperature Location	Bottom Lift	Top Lift	Seal Coat	
			Graded Seal	Chip Seal
Ambient Air	5°C	5°C	10°C	15°C
Road Surface	Not Specified	10°C	20°C	20°C

Region:	Project Number:
Project Location:	

**AMBIENT AIR TEMPERATURE**

Date (yyyy/mm/dd)	Shift Start Time	Shift Start Temperature	Shift Start Time Plus				Remarks
			1 Hr	2 Hr	3 Hr	4 Hr	

**SURFACE TEMPERATURE**

Date (yyyy/mm/dd)	Shift Start Time	Shift Start Temperature	Shift Start Time Plus				Remarks
			1 Hr	2 Hr	3 Hr	4 Hr	

**PAVING OPERATIONS DATA**

Paving Start Time	Temperature At Start	
	Air	Surface

**WEATHER CONDITIONS**


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**REASON FOR COLD WEATHER PAVING**


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Signature

 \_\_\_\_\_  
Printed Name

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Date