



TENDER AMENDMENT

RETURN BIDS TO:

Parks Canada Agency
635 – 8 Avenue S.W., Suite 1300
Calgary, AB T2P 3M3
Bid Fax: (403) 292-4475

The referenced document is hereby amended: unless otherwise indicated, all other terms and conditions of the contract remain the same.

Issuing Office:

Parks Canada Agency
635 – 8 Avenue S.W., Suite 1300
Calgary, AB T2P 3M3

MODIFICATION D'APPEL D'OFFRES

RETOURNER LES SOUMISSIONS À :

Agence Parcs Canada
635 – 8 Avenue S.O., pièce 1300,
Calgary, AB T2P 3M3
N° de télécopieur pour soumissions : (403) 292-4475

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Bureau de distribution :

Agence Parcs Canada
635 – 8 Avenue S.O., pièce 1300
Calgary (AB) T2P 3M3

Title: Avalanche Mitigation Phase 1B, Snow Nets, Glacier National Park Protection contre les avalanches, étape 1B – filets de protection contre les avalanches, parc national des Glaciers		
Solicitation No.: / N° de l'invitation : 5P420-15-5275/A	Amendment No.: / N° de modification de l'invitation : 002	Date: January 11, 2016 Date : 11 janvier 2016
GETS Reference No.: / N° de référence de SEAG : PW-15-00713474		
Solicitation Closes: / L'invitation prend fin :		
At: 02:00 PM	On: January 26, 2016	Time Zone: Mountain Standard Time (MST)
À : 14h00	Le : 26 janvier 2016	Fuseau horaire : Heure normale des Rocheuses (HNR)
Address Inquiries to: / Adresser toute demande de renseignements à : Nicole Levesque-Welch		
Telephone No.: / N° de téléphone : (403) 292-4691	Fax No.: / N° de télécopieur : (403) 292-4475	Email Address: / Courriel : nicole.levesque-welch@pc.gc.ca
TO BE COMPLETED BY THE BIDDER (type or print)		
Vendor/Firm Name – Nom du fournisseur/de l'entrepreneur		
Address - Adresse		
Name of person authorized to sign on behalf of the Vendor/Firm Nom de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur		
Title - Titre		
Signature		Date



This amendment is being raised to extend the bid closing date and to respond to questions submitted in response to solicitation 5P420-15-5275/A:

A. BID CLOSING DATE

The closing date for tender 5P420-15-5275/A, titled Avalanche Mitigation Phase 1B, Snow Nets, Glacier National Park, is extended from January 20, 2016 until January 26, 2016 at 2:00PM Mountain Savings Time (MST).

B. QUESTIONS AND ANSWERS:

Q2. There is still vital information missing in order to calculate the size/quantity of the snow net systems according to the Swiss guidelines referenced. Required are the snow density, the slope angle at each row, and the altitude factor.

A2. The information requested can be obtained from the LiDAR data provided as well as the publically available internet sites.

- Snow Density: Adjacent long-term snow course stations provide applicable density information, which may need interpolation. Applicable data is publically available at the following website: River Forecast Centre Manual Snow Survey Data: <http://bcrcfc.env.gov.bc.ca/data/survey/>
- Slope angle at each row: This information may be measured directly off the provided map 15-0011-MCS-003, which is provided at a scale of 1: 1,500 and with 1 m contour intervals.
- Altitude Factor, Fc: This information may be measured directly off the provided map 15-0011-MCS-003, which is provided at a scale of 1: 1,500 and with 1 m contour intervals

While it is the responsibility of all bidders to complete their own evaluation of the data as provided above, the following detailed information directly related to the bidder's questions is provided as a **guideline only**. It must be noted as well that the slope angle measurements are preliminary and based on the 1 m LiDAR contours, the prospective bidder is advised to review all provided information and determine its accuracy and value:

- Snow Density: Adjacent long-term snow courses provide applicable density information, which may need interpolation. The recommended sites for evaluation include:
 - Glacier Station 2A02, 1249 m, observation period 1938-2015, applicable observation dates Jan.1-May 1: Mean annual maximum snow density = 367 kg/m³, standard deviation 51 kg/m³.
 - Fidelity Station 2A17, 1852 m, observation period 1963-2015, applicable observation dates Jan.1-May 1: Mean annual maximum snow density = 410 kg/m³, standard deviation 62 kg/m³.
 - Applicable data is publically available at the following website: River Forecast Centre Manual Snow Survey Data: <http://bcrcfc.env.gov.bc.ca/data/survey/>
- Slope angle at each row: This information may be measured directly off the provided map 15-0011-MCS-003, which is shown at a scale of 1: 1,500 with 1 m contour intervals. The preliminary estimate of slope angle at each row is as follows:



Cougar Corner 6

Row	Avg. Slope Incline
Row 1	54
Row 2	52.5
Row 3	47.7
Row 4a	51
Row 4b	51
Row 5	53
Row 6	53
Row 7	53
Row 8	50
Row 9	48
Row 10	50
Row 11a	50
Row 11b	50
Row 12	50
Row 13	49
Row 14	48
Row 15	48
Row 16	45

Cougar Corner 7

Row	Avg. Slope Incline
Row 1	51
Row 2	51
Row 3	50
Row 4	50
Row 5	53
Row 6	53
Row 7	53
Row 8a	52
Row 8b	52
Row 9a	55
Row 9b	55
Row 10	52
Row 11	51
Row 12	50
Row 13	48

Cougar Corner 8

Row	Avg. Slope Incline
Row 1	42
Row 2	40
Row 3	42
Row 4	44
Row 5	40
Row 6	45
Row 7	41

- Altitude Factor, Fc: This information may be measured directly off the provided map 15-0011-MCS-003, which is provided at a scale of 1: 1,500 with 1 m contour intervals. For an elevation range of approximately 1535 m to 1750 m, a preliminary range of Fc is estimated to range from 1.007 to 1.05.

All other terms and conditions remain the same.