

From: [Willms, Lori FLNR:EX](#)
To: [Ho, Anne](#)
Cc: [Craig McLeod](#)
Subject: RE: COFI Boardroom | Friday Aug 2 | 2-4
Date: August 1, 2019 9:44:00 AM

Thank you so much for all your help!^{s.22}

Thank you,

Lori Willms || Senior Executive Assistant || Deputy Minister's Office
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Ph: 250.952-6500

From: Ho, Anne [<mailto:Ho@cofi.org>]
Sent: August 1, 2019 9:44 AM
To: Willms, Lori FLNR:EX
Cc: Craig McLeod
Subject: Re: COFI Boardroom | Friday Aug 2 | 2-4

Thanks.

On Aug 1, 2019, at 9:40 AM, Willms, Lori FLNR:EX <Lori.Willms@gov.bc.ca> wrote:

Hi Anne,

I believe there are six? Possibly eight – but six confirmed.

Thank you,

Lori Willms || Senior Executive Assistant || Deputy Minister's Office
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Ph: 250.952-6500

From: Ho, Anne [<mailto:Ho@cofi.org>]
Sent: July 31, 2019 2:30 PM
To: Willms, Lori FLNR:EX
Subject: Re: COFI Boardroom | Friday Aug 2 | 2-4

The boardroom is available. Let me know how many people and I will let Craig know to expect John.

Thanks

Anne

Anne Ho
EA to President & CEO
BC Council of Forest Industries
#1220 - 595 Howe Street
Vancouver, BC V6C 2T5
604-891-1211 / 778-991-7616

On Jul 31, 2019, at 1:14 PM, Willms, Lori FLNR:EX <Lori.Willms@gov.bc.ca> wrote:

Hi Anne,

John was wondering if he could use the COFI Boardroom on Friday August 2nd from 2:00 pm – 4:00 pm? Is it available?

Thank you,

Lori Willms || Senior Executive Assistant || Deputy Minister's Office
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Ph: 250.952-6500

From: [Linda McColman](#)
To: [Lumber&Chip Sales, AMV Reporting FLNR:EX](#)
Subject: RE: EXT - FW: AMV report for July 2019
Date: August 15, 2019 8:11:07 AM
Attachments: [AMV July 2019.xlsx](#)

Hi Michelle, sorry about that. Yes it is for July.
Thanks

Regards.
Linda McColman
Controller
250-635-6336 Ext 1024



From: Lumber&Chip Sales, AMV Reporting FLNR:EX <LumberChipSales@gov.bc.ca>
Sent: Thursday, August 15, 2019 8:07 AM
To: Linda McColman <Linda.McColMan@skeenasawmills.com>
Subject: EXT - FW: AMV report for July 2019

Hi Linda,

The Hemlock CLS Sales Random reports as June, please confirm it is for July 2019?

The others report as July.

Thank you.

Kind regards,

Michelle Dobie
Timber Pricing Accountant, Interior
Timber Pricing Branch
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Phone: 778 974-2465

Rethink Reduce Reuse Repair Recycle

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From: Linda McColman [<mailto:Linda.McColMan@skeenasawmills.com>]
Sent: Wednesday, August 14, 2019 4:25 PM
To: Lumber&Chip Sales, AMV Reporting FLNR:EX; Rice, Miles FLNR:EX
Subject: AMV report for July 2019

Regards.

Linda McColman

Controller

250-635-6336 Ext 1024



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LUMBER SALES (AMV) MONTHLY REPORT CLS SALES - RANDOM

Mill Name: Skeena Sawmills Ltd.

Contact: Linda McColman

Month: Jul - 19

Mill # : COFI 18

Phone: 250-635-6336

Species: HEM

Grade	M/F	Size	MBM	\$	\$/MBM
STANDARD #2 & BETTER		10x10			\$ -
		8x8	112.000	\$ 54,843.93	\$ 489.68
		2X4	0.939	\$ 422.55	\$ 450.00
		2x6			\$ -
		2x8	563.206	\$ 261,881.26	\$ 464.98
		2x10			\$ -
		2x12			\$ -
		12x12	86.112	\$ 54,110.23	\$ 628.37
					-
UTILITY #3					-
					-
					-
					-
					-
					-
					-
					-
ECONOMY					-
					-
					-
					-
					-
					-
					-
					-
OTHER					-
					-
					-
					-
					-
					-
					-
					-
TOTAL RANDOM			762.257	\$ 371,257.97	487.05
TRIM BLOCK SALES					-
TIE SALES	#				-
TOTAL SUBMISSION			762.257	\$ 371,257.97	487.05

E-MAIL: LumberChipSales@gov.bc.ca

AND your Regional Auditor:

If No E-mail, FAX: Timber Pricing @ (250) 387-8393

North Miles.Rice@gov.bc.ca

South Tony.Bosch@gov.bc.ca

From: [Lumber&Chip Sales, AMV Reporting FLNR:EX](#)
Subject: Reminder: Lumber Sales Report for July 2019 due Tuesday, August 20th
Date: August 16, 2019 8:28:32 AM

Good morning,

Please note, the July 2019 Lumber Sales Report is due on August 20th. Submissions still in the traditional Excel template can be emailed to Lumber&ChipSales@gov.bc.ca with a cc to your Regional Revenue Accountant.

For those mills ready to submit electronically via the Electronic Submission Framework (ESF) please use your BCeID to login to <https://apps.nrs.gov.bc.ca/ext/esf/submissionWelcome.do>.

A few words of caution for ESF submitters:

- The date of the report is actually July 2019 and NOT the date you are submitting
- ESF is only compatible with an Internet Explorer browser- it will NOT work with Chrome, Firefox, etc.

Please note, AMVs are to be reported net of CVD and AD duties as outlined in the reporting instructions. Please check with your accounting and IT departments that both manual or ESF reporting is net of duties.

For more information, please see the attached link from the ministry website:

https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/forestry/timber-pricing/interior-timber-pricing/interior-parameters/interior_lumber_and_chip_sales_instruction.pdf.

The net sales value for each species is reported in Canadian dollars after the following applicable costs have been deducted from the selling price (f.o.b. mill):

1. Freight;
2. Actual sales expenses incurred (maximum 5%);
3. Cash discounts;
4. Export and surge charges;
5. Leased rail car costs.

If you have any questions or concerns, please let me know.

Hope you have a great weekend!

Kind regards,

Michelle Dobie

Timber Pricing Accountant, Interior
Timber Pricing Branch
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
Phone: 778 974-2465

 Rethink Reduce Reuse Repair Recycle

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From: [Klasen, Charlie B FLNR:EX](#)
To: [FLNR HVA Coast MPS Technical Sub-committee](#)
Subject: FW: Proposed Agenda - Coast MPS Technical Committee Sept. 5th - Privileged and Confidential
Date: September 4, 2019 10:07:00 AM

To: Coast MPS Tech Sub-Committee Members – Privileged and Confidential

See copy of proposed agenda below.

Charles Klasen, R.P.F.
Senior Timber Pricing Forester, Coast
Timber Pricing Branch
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
(778) 974-2468

From: Bennett, Allan FLNR:EX
Sent: August 30, 2019 8:01 AM
To: Klasen, Charlie B FLNR:EX <Charlie.Klasen@gov.bc.ca>
Subject: FW: Proposed Agenda - Coast MPS Technical Committee Sept. 5th

From: Kurt Niquidet <niquidet@cofi.org>
Sent: August 29, 2019 4:50 PM
To: Bennett, Allan FLNR:EX <Allan.Bennett@gov.bc.ca>
Subject: Proposed Agenda - Coast MPS Technical Committee Sept. 5th

Hi Al,

Below is a proposed agenda for our kick-off meeting next Thursday in Victoria.
Let me know of your thoughts. I'm travelling tomorrow but perhaps we can touch base Tuesday or Wednesday next week and discuss.

1. Introductions
2. Terms of Reference
3. Timelines
4. Timber Sale Data (X-matrix, protocol)
5. Benchmark (log-based) equation
6. Alternative variables to model
7. Lumber-based model
8. Implications of recent and upcoming policy changes (i.e. incorporating into the model)
 - a. FRZs
 - b. Fee in Lieu
9. Status of TOA data and potential changes (e.g. silviculture, Forest Planning & Admin)
10. Specified Operations

11. Other items for discussion: No bid timber sales, fixed vs variable stumpage rates

Regards,

Kurt Niquidet

Vice President and Chief Economist

Phone: +1 604-891-1229

Mobile: +1 778-222-7375

Email: niquidet@cofi.org



From: [Nunn, Jason R FLNR:EX](#)
To: [Nunn, Jason R FLNR:EX](#); [Dobie, Michelle FLNR:EX](#)
Subject: Conversation with Nunn, Jason R FLNR:EX
Date: November 19, 2019 4:08:48 PM

Nunn, Jason R FLNR:EX 3:18 PM:

Michelle, is XT:Niquidet, Kurt FLNR:IN <niquidet@cofi.org> on your distribution list for lumber?

Dobie, Michelle FLNR:EX 3:20 PM:

Hi Jason, for the IAAC email distribution list?

Nunn, Jason R FLNR:EX 4:07 PM:

is that what you use?

Dobie, Michelle FLNR:EX 4:08 PM:

Yes, the FLNR HVA Interior...email distribution list - should it be something else?

From: [De Silva-Mitchell, Amali FLNR:EX](#)
To: [Klasen, Charlie B FLNR:EX](#)
Subject: FW: Please see attached, authorized CSP COFI report data for period ending June 2019 - FOI request December 16, 2019 TPB
Date: December 16, 2019 11:33:08 AM
Attachments: [Management Approved COFI CSP report June 2019.xlsx](#)

FOI request December 16, 2019 TPB per Patrick to send this email to you ...

Amali

Please see email below for FOI and the associated file is attached to this email ...

From: De Silva-Mitchell, Amali FLNR:EX
Sent: August 13, 2019 9:16 AM
To: Bennett, Allan FLNR:EX <Allan.Bennett@gov.bc.ca>; Ghazarian, Sabina FLNR:EX <Sabina.Ghazarian@gov.bc.ca>; Klasen, Charlie B FLNR:EX <Charlie.Klasen@gov.bc.ca>; Asante, Patrick FLNR:EX <Patrick.Asante@gov.bc.ca>; XT:Niquidet, Kurt FLNR:IN <niquidet@cofi.org>; 'Craig McLeod' <McLeod@cofi.org>
Subject: Re: Please see attached, authorized CSP COFI report data for period ending June 2019

Please see attached, management approved COFI report, CSP data for you, for the period ending June 2019.
Please refer to the notes tab, within the work-book, for terms and conditions of the authorization.

A. De Silva – Mitchell
Senior Timber Pricing Accountant (Coast), FLNRORD

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Re: COFI Request for Coast Average Market Value Data

Further to your request of April 5, 2018 to the Director, Timber Pricing Branch for the continued delivery of Coast Average Market Value data, please see the attached copies of the most recent 3 and 6 -month aggregated data sort code summary reports within the tabs of this workbook, approved for you by management.

Please note the following:

1. These reports will be generated for you each month as rolling month-end reports. A 12 month report can be created by adding the base dollar and volume values together of either 4, 3 month reports or 2, 6 month reports. Data is subject to change due to data updates.
2. The time-frame for this service expires at the earliest of May 2021; or due to a change of intended use, unless pre-authorized by the Timber Pricing Manager BC FLNRORD.
3. Sorts with client representation of less than three participants have been eliminated so as to protect the data submitted under Section 136 of the Forest Act.
4. Please note the copyright provisions under which this data is provided:

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From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: Draft Coast Bucking Card
Date: December 20, 2019 2:29:23 PM
Attachments: [Coastal Bucking Card.xlsx](#)

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: December 19, 2019 11:57 AM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: FW: Draft Coast Bucking Card

From: Les Kiss ^{s.22}
Sent: August 21, 2019 10:41 AM
To: Tudor, Keith FLNR:EX <[Keith.Tudor@gov.bc.ca](#)>
Cc: Mike Brack <[mike.brack@interfor.com](#)>
Subject: Draft Coast Bucking Card

Here you go Keith. The draft reflects some input from Debbie and Jason and has been provided to Carrisa. Mike will walk us through it on the call tomorrow.

Cheers, Les

COASTAL BUCKING CARD

for Bucking Waste 0.25 m to 2.99 m in length

Trim less than 0.25 m is No Tally

% Sound	Waste Class	Kind	Grade	Comments
> 50% Metric Deduction	No Tally	No Tally	Z	Firm wood reject. Chapter 10-4 Coastal Scaling Manual 1. Heart rot >50% of gross scale of waste piece 2. Net length under 0.25m for rot deduction 3. Sap rot or char leaving less than 10cm firm heart wood
> 33.3% Grade Consider ation	W	A/U	Y	Any avoidable waste over 0.24m but under 66.6 % sound for BK, CA, CK, CR, DP, FC, FK, HK, KN, SH, SL, SW, WS, HR or PR Defective bucking waste can be pencil bucked to separate avoidable waste from unavoidable waste portion
All avoidable bucking waste displaying conk or pin rot is automatically graded Y				
small diam	W	A/U	Y	Bucking waste 5 to 7 rad butt cut all species Automatically graded Y
Slabs < 8 r thick	W	A/U	Y	All slab pieces cut < 8r average thickness Y grade all species
Twist	W	A/U	Y	Waste 11% or greater twist automatic Y grade all species
< 66.6% G.C.	W	A/U	J	All 8 rad waste cut over 0.24 m and 66.6% sound or better meeting knot/twist specs coded full stumpage J for grade.
all measurements in rads Waste automatically graded Y for one over- sized knot		KNOT SPEC TABLE		
		Waste Diam	J	Y
		5 to 7	All waste automatic Y	
		8 to 13	2 or less	over 2 rads
		14 to 18	3 or less	over 3 rads
		19 to 24	4 or less	over 4 rads
		25+	5 or less	over 5 rads
Waste surveyors MUST be competent in Chapter 8 Coastal Scaling Manual field procedures to calculate both the metric deduction and the grade consideration for netting down timber volume.				

BK = Breakage

CA = Candlabra

CK = Crook

CR = Severe Crook

DP = Dead Potential

FC = Frost Crack

FK = Fork

HK = Hook

KN = Knots

SH = Shatter

SL = Slab

SW =

WS = Water Shake

HR = Heart Rot

PR = Pocket Rot

sap rot, char, sun check, insect damage

bark seams, fluting or butt rot > 33.3% G.C. = Y Grade

Waste

Coastal Waste Committee

Date Aug. 7/19.

Meeting - All members present / on phone and Grants + Al Bennett joined @ start.

Ministry
objectives:

- New waste system by Dec for Coast.
- Pile Deconstruction.
- Bucking Waste Criteria -
 - Simplify grades?
- Consistent use of manual interpretation.

Pile Project - Mike

Methods - Locations are budget driven - \$150 k. budget.

- Breakdown by type / stratum.
- Mike^W to schedule field crews (camp - 2 people).
- RHR pile selection.
 - EFORWASTE Ratio? For pile selection?
- District MoF support (if needed).
- Pile dimensions + shape. (3 options) maybe more?
- Complete pile plot prior to deconstruction.
- Can we do dispersed breakage plots while deconstructing?
 - All merch, DV, Breakage measured.
- Contracts - Local contractors if available?
 - 2 week Bc Bid Process.
 - Some direct award < \$25 k.

Page

Dry Y = 750x.

- Species dependant?
- Capture TC 3 dead potential trees.

X- remove from Benchmark?

Stump heights - safety + company use.

Standing Waste -

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: FYI - Info for eLDS Conference Call
Date: December 20, 2019 2:31:25 PM
Attachments: [Electronic Transactions Act.pdf](#)
[TMTR.pdf](#)
[LDS in Scaling Manual.pdf](#)
[Draft eLDS SOP \(Aug.14 summary of feedback\).docx](#)

From: Geddert, Erich FLNR:EX <Erich.Geddert@gov.bc.ca>

Sent: August 15, 2019 1:26 PM

To: 'Patti Lippe' <PLippe@westernforest.com>; 'nick.broekhuizen@mosaicforests.com' <nick.broekhuizen@mosaicforests.com>; 'Lesley White' <lesley.white@interfor.com>; 'John Millar' <john.millar@interfor.com>; Lidstone, Cynthia G FLNR:EX <Cynthia.Lidstone@gov.bc.ca>; Davenport, Michael FLNR:EX <Michael.Davenport@gov.bc.ca>; Smallacombe, Daniel K FLNR:EX <Daniel.Smallacombe@gov.bc.ca>; Wheeler, Lynne M FLNR:EX <Lynne.Wheeler@gov.bc.ca>; Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>; Kiss, Les FLNR:IN s.22 ; Modesto, Robin FLNR:IN <robin.modesto@interfor.com>; 'Janice Mathers' <jmathers@westernforest.com>; 'ryan.wheatley@mosaicforests.com' <ryan.wheatley@mosaicforests.com>; Glen, Stuart FLNR:IN <sglen@westernforest.com>

Subject: FYI - Info for eLDS Conference Call

In advance to our conference call tomorrow I am forwarding a summary of the feedback that was received on the draft eLDS Creation SOP that was sent out on July 19th. You will find the comments in the attached Word document.

Thanks to everyone who provided feedback. I've tried to cover off the various concerns and questions that were raised in the attached document. However, if I've missed anything please don't hesitate to bring it up on the call tomorrow.

For your reference I am also attaching the following to this note;

- Copy of the TMTR (Timber Marking and Transport Regulation)
- Copy of the ETA (Electronic Transaction Act)
- Copy of the Scaling Manual Excerpt regarding LDS

eLDS SOP & Log Transport Review Process – Conference Call

Dial In **1-877-353-9184** Conference ID s.15

Time: 11:00 to 11:30

Regards, Erich

Erich Geddert, RFT

Timber Measurements Project Manager

Timber Pricing Branch

Forests, Lands, Natural Resource Operations and Rural Development

Phone: 250-286-9406 (Campbell River)
Cell: 250-203-3984
e-mail: Erich.Geddert@gov.bc.ca

ELECTRONIC TRANSACTIONS ACT

Published by Quickscribe Services Ltd.

Updated To:
[includes 2015 Bill 5, c. 27 (B.C. Reg. 109/2016) amendments (effective May 10, 2016)]

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ELECTRONIC TRANSACTIONS ACT

CHAPTER 10 [SBC 2001]

[includes 2015 Bill 5, c. 27 (B.C. Reg. 109/2016) amendments (effective May 10, 2016)]

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PART 1 – Definitions, Application and Exceptions

Definitions

1. In this Act:

"electronic" means created, recorded, transmitted or stored in digital or other intangible form by electronic, magnetic or optical means or by any other similar means;

"electronic agent" means a computer program, or other electronic means, used to initiate an activity or to respond to electronic information, records or activities in whole or in part without review by an individual at the time of the response or activity;

"electronic signature" means information in electronic form that a person has created or adopted in order to sign a record and that is in, attached to or associated with the record.

2001-10-1.

Application and exceptions

2. (1) This Act does not limit the operation of a law that

- (a) expressly authorizes, prohibits or regulates the use of information or records in electronic form, or
- (b) requires information or a record to be posted, displayed or delivered in a specific manner.

(2) For the purpose of subsection (1), the use of "in writing" and "signature" and other similar words and expressions does not by itself prohibit the use of information or records in electronic form.

(3) The provisions of this Act relating to the satisfaction of a requirement of a law apply whether or not the law creates an obligation or provides consequences.

(4) This Act does not apply to

- (a) wills,
- (b) trusts created by wills,
- (c) powers of attorney, to the extent that they concern the financial affairs or personal care of an individual,
- (d) documents that create or transfer interests in land and that require registration to be effective against third parties, or
- (e) other provisions, requirements, information or records prescribed in the regulations.

(5) Parts 2 and 3 do not apply to negotiable instruments or documents of title.

2001-10-2.

PART 2 – General

Legal recognition

3. Information or a record to which this Act applies must not be denied legal effect or enforceability solely by reason that it is in electronic form.
2001-10-3.

Use not mandatory

4. (1) Nothing in this Act requires a person to provide, receive or retain information or a record in electronic form without the person's consent.
(2) Consent by a person to provide, receive or retain information or a record in electronic form may be inferred from the person's conduct.
2001-10-4.

Requirement for a record to be in writing

5. A requirement under law that a record be in writing is satisfied if the record is
(a) in electronic form, and
(b) accessible in a manner usable for subsequent reference.
2001-10-5.

Requirement to provide information or a record to be in writing

6. A requirement under law that a person provide information or a record in writing to another person is satisfied if the person provides the information or record in electronic form and the information or record is
(a) accessible by the other person in a manner usable for subsequent reference, and
(b) capable of being retained by the other person in a manner usable for subsequent reference.
2001-10-6.

Requirement to provide information or a record in a specified non-electronic form

7. A requirement under law that a person provide information or a record organized in a specified non-electronic form to another person is satisfied if the person provides the information or record electronically and the information or record is
(a) organized in the same or substantially the same manner as the specified non-electronic form,
(b) accessible by the other person in a manner usable for subsequent reference, and
(c) capable of being retained by the other person in a manner usable for subsequent reference.
2001-10-7.

Requirement to provide and retain originals

8. (1)

ELECTRONIC TRANSACTIONS ACT

A requirement under law that a person provide an original record is satisfied by the provision of the record in electronic form if

- (a) there exists a reliable assurance as to the integrity of the record in electronic form, and
 - (b) the record in electronic form is accessible by the person to whom it is provided and is capable of being retained by that person in a manner usable for subsequent reference.
- (2) A requirement under law that a person retain an original record is satisfied by the retention of the record in electronic form if there exists a reliable assurance as to the integrity of the record.
- (3) For the purposes of subsections (1) and (2),
- (a) the criterion for assessing integrity is whether the record has remained complete and unaltered, apart from the introduction of changes that arise in the normal course of communication, storage and display, and
 - (b) the standard of reliability required must be assessed in view of the purpose for which the record was created and other relevant circumstances.

2001-10-8.

Requirement to retain a record

(AM)
May
10/16

- 9.** Subject to sections 9 and 13 of the *Information Management Act*, a requirement under law to retain a record is satisfied by the retention of the record in electronic form if
- (a) the record is retained in the format in which it was created, provided or received, or in a format that does not materially change the record,
 - (b) the record will be accessible in a manner usable for subsequent reference by any person who is entitled to have access to the record or who is authorized to require its production, and
 - (c) on provision or receipt of the record, the information, if any, that identifies the origin and destination of the record and the date and time when it was sent or received is also retained.

2001-10-9; 2015-27-36 (B.C. Reg. 109/2016).

Whether record is capable of being retained

- 10.** A record in electronic form is deemed not to be capable of being retained if the person providing the record inhibits the printing or storage of the record by the recipient.

2001-10-10.

Signatures

- 11.** (1) If there is a requirement under law for the signature of a person, that requirement is satisfied by an electronic signature.
- (2) Subsection (1) does not apply to a signature for a record prescribed, or within a class prescribed, under section 21 (2) (d) unless the proof described in section 21 (2) (d) is present.

2001-10-11.

Copies

- 12.** If information or a record may be provided in electronic form, a requirement under law for one or more copies of the information or record to be provided to a single addressee at the same time is satisfied by providing a single version in electronic form.

ELECTRONIC TRANSACTIONS ACT

2001-10-12.

Collection, storage, etc.

- 13.** In the absence of an express provision in an enactment that electronic means may not be used or that electronic means must be used in specified ways, the government may use electronic means to create, store, transfer, distribute, publish or otherwise deal with records or information.

2001-10-13.

Electronic payments to or by the government of British Columbia

(AM)
Apr
01/04
(AM)
Apr
01/04

- 14.** (1) A payment that is authorized or required under law to be made to the government may be made in electronic form in a manner specified by the Minister of Finance.
- (2) A payment that is authorized or required to be made by the government may be made in electronic form in a manner specified by the Minister of Finance.

2001-10-14; 2003-54-27, Sch A.

PART 3 – Electronic Communication of Information and Records

Formation and operation of contracts

15. (1) Unless the parties agree otherwise, an offer or the acceptance of an offer, or any other matter that is material to the formation or operation of a contract, may be expressed
- (a) by means of information or a record in electronic form, or
 - (b) by an activity in electronic form, including touching or clicking on an appropriately designated icon or place on a computer screen or otherwise communicating electronically in a manner that is intended to express the offer, acceptance or other matter.
- (2) A contract is not invalid or unenforceable solely by reason that information or a record in electronic form was used in its formation.
- 2001-10-15.

Involvement of electronic agents

16. A contract may be formed by the interaction of an electronic agent and an individual or by the interaction of electronic agents.
- 2001-10-16.

Errors that occur while dealing with electronic agents

17. An electronic record created by an individual with an electronic agent of another person is invalid and unenforceable if the individual made a material error in the record and
- (a) the electronic agent did not provide the individual with an opportunity to prevent or correct the error,
 - (b) the individual notifies the other person of the error as soon as practicable after the individual learns of the error and indicates that he or she made an error respecting the electronic record,
 - (c) the individual takes reasonable steps, including steps that conform to the other person's instructions, to return the consideration received, if any, as a result of the error or, if instructed to do so, to destroy the consideration, and
 - (d) the individual has not used or received any material benefit or value from the consideration, if any, received from the other person.
- 2001-10-17.

Sending or receiving information and records

18. (1) Unless the originator and addressee agree otherwise, information or a record in electronic form is sent when it enters an information system outside the control of the originator or, if the originator and the addressee are in the same information system, if the information or record becomes capable of being retrieved and processed by the addressee.
- (2) If information or a record is capable of being retrieved and processed by an addressee, the information or record in electronic form is deemed, unless the contrary is proven, to be received by the addressee
- (a) when it enters an information system designated or used by the addressee for the purpose of receiving information or records in electronic form of the type sent, or

ELECTRONIC TRANSACTIONS ACT

- (b) if the addressee has not designated or does not use an information system for the purpose of receiving information or records in electronic form of the type sent, on the addressee becoming aware of the information or record in the addressee's information system.
- (3) Unless the originator and the addressee agree otherwise, information or a record in electronic form is deemed to be sent from the originator's place of business and is deemed to be received at the addressee's place of business.
- (4) For the purposes of subsection (3), if the originator or the addressee has more than one place of business, the place of business is that which has the closest relationship to the underlying transaction to which the information or record in electronic form relates or, if there is no underlying transaction, the principal place of business of the originator or the addressee.
- (5) For the purposes of subsection (3), if the originator or the addressee does not have a place of business, the references to "place of business" in subsection (3) are to be read as references to "habitual residence".

2001-10-18.

PART 4 – Carriage of Goods

Activity related to contracts of carriage of goods

19. This Part applies to an activity respecting a contract of carriage of goods, including, but not limited to, the following:
- (a) furnishing the marks, number, quantity or weight of goods;
 - (b) stating or declaring the nature or value of goods;
 - (c) issuing a receipt for goods;
 - (d) confirming that goods have been loaded;
 - (e) giving instructions to a carrier of goods;
 - (f) claiming delivery of goods;
 - (g) authorizing release of goods;
 - (h) giving notice of loss of, or damage to, goods;
 - (i) undertaking to deliver goods to a named person or a person authorized to claim delivery;
 - (j) granting, acquiring, renouncing, surrendering, transferring or negotiating rights in goods;
 - (k) notifying a person of terms and conditions of a contract of carriage of goods;
 - (l) giving a notice or statement in connection with the performance of a contract of carriage of goods;
 - (m) acquiring or transferring rights and obligations under a contract of carriage of goods.

2001-10-19.

Records

20. (1) Subject to subsection (2), a requirement in law that a matter mentioned in section 19 be carried out in writing or by using a paper record is satisfied if the activity is carried out by using one or more records in electronic form.
- (2) If a right is to be granted to or an obligation is to be acquired by one person and no other person and a provision of an enactment requires that, in order to do so, the right or obligation must be conveyed to that person by the transfer or use of a record in writing, that requirement is satisfied if the right or obligation is conveyed through the use of one or more records in electronic form created by a method that gives reliable assurance that the right or obligation has become the right or obligation of that person and no other person.
- (3) For the purposes of subsection (2), the standard of reliability required must be assessed in view of the purpose for which the right or obligation was conveyed and any other relevant circumstances, including any relevant agreement.
- (4) If one or more records in electronic form are used to accomplish a matter mentioned in section 19 (j) or (m), a record in writing used to effect the activity is not valid unless the use of records in electronic form has been terminated and replaced by the use of records in writing.
- (5) A record in writing issued in the circumstances mentioned in subsection (4) must contain a statement of the termination, and the replacement of the records in electronic form by records in writing does not affect the rights or obligations of the parties involved.

ELECTRONIC TRANSACTIONS ACT

- (6) If a law is compulsorily applicable to a contract of carriage of goods that is set out in, or is evidenced by, a record in writing, that law is not inapplicable to a contract of carriage of goods that is evidenced by one or more records in electronic form by reason solely that the contract is evidenced by records in electronic form rather than by a record in writing.

2001-10-20.

PART 5 – Regulations

Power to make regulations

- 21.** (1) The Lieutenant Governor in Council may make regulations referred to in section 41 of the *Interpretation Act*.
- (2) Without limiting subsection (1), the Lieutenant Governor in Council may make regulations as follows:
- (a) defining, enlarging or restricting the meaning of a word or expression used in this Act but not defined in this Act;
 - (b) specifying provisions of or requirements under another enactment to which this Act does not apply;
 - (c) prescribing records, information or classes of records or information to which this Act, or a provision of this Act, does not apply;
 - (d) prescribing records or classes of records for which a requirement under law for the signature of a person must be satisfied by an electronic signature and proof that, in view of all the circumstances including any relevant agreement and the time the electronic signature was made,
 - (i) the electronic signature is reliable for the purpose of identifying the person, and
 - (ii) the association of the electronic signature with the relevant electronic record is reliable for the purposes for which the electronic record was made;
 - (e) respecting electronic signatures in addition to matters specified in paragraph (d);
 - (f) respecting electronic means to be used for the sending, receiving or retaining of information or records in electronic form if an enactment requires a person to send, receive or retain the information or records;
 - (g) respecting other matters or things that the Lieutenant Governor in Council considers necessary to carry out the intent of this Act.

2001-10-21.

Commencement

- 22.** This Act comes into force by regulation of the Lieutenant Governor in Council.

TIMBER MARKING AND TRANSPORTATION REGULATION 253/97

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[includes B.C. Reg. 237/2013, App. 2 amendments (effective November 28, 2013)]

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TIMBER MARKING AND TRANSPORTATION REGULATION 253/97

B.C. Reg. 253/97

[includes B.C. Reg. 237/2013, App. 2 amendments (effective November 28, 2013)]

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11. Offence

Note: This regulation replaces B.C. Reg. 567/78.

[Provisions of the *Forest Act*, RSBC 1996, c. 157, relevant to the enactment of this regulation: sections 84, 86, 89, 97, 151 (1.1), (2) (d) and (n.1) and (3)]

Interpretation

1. (1) In this regulation:

"**Act**" means the *Forest Act*, R.S.B.C. 1996, c. 157;

"**bundle tag**" means a durable and waterproof tag showing a unique

(a) identification number, or

(b) combination of numbers and letters;

"**scale site**" means a place for which a scale site authorization issued under the Act is in effect;

"**timber**" means trees, whether living, dead, limbed, bucked or peeled, and includes special forest products;

"**truck**" includes a multi-trailer configuration;

(ADD)
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(ADD)
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"unscaled timber" includes timber which is subject to section 106 of the Act.

- (2) For the purpose of this regulation, the load of timber carried on a truck and on each trailer in a multi-trailer configuration is considered for marking purposes to be a separate load.

[am. B.C. Regs. 422/97; 257/2007.]

(SUB) **Scale site designation and conditions of transport**

Sep
01/07

2. (1) For the purpose of Part 6 of the Act, a person must
- (a) transport unscaled timber to a scale site designated by a forest officer, and
 - (b) if conditions are imposed on the person under subsection (2), comply with the conditions.
- (2) If the minister considers it necessary or desirable to ensure that timber being transported under subsection (1) is delivered to the scale site and scaled, the minister may impose conditions on the transportation of the timber.
- (3) In respect of timber transported by water, a condition imposed under subsection (2) may, without limiting the conditions that may be imposed, require the person to make a report to the minister, in the form and manner required by the minister, showing
- (a) the amount of timber that was shipped,
 - (b) the amount of timber that was scaled, and
 - (c) the bundle tag numbers cross-referenced with the information required under section 10 and in scale returns.

[en. B.C. Reg. 257/2007; am. B.C. Reg. 133/2011.]

(AM)
Jul
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(AM)
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**Timber marking requirements –
stored timber**

(SUB)
Oct
22/99

3. (1) For the purposes of section 84 of the *Forest Act*, a person who stores unscaled timber in decks or piles must apply the correct timber mark to one end of at least 10% of the timber pieces in each deck or pile using hammer indentation, if the deck or pile is
- (a) on Crown land, or
 - (b) on private land, if
 - (i) the private land is
 - (A) immediately adjacent to Crown land that is subject to an agreement under the *Forest Act*, or
 - (B) subject to a woodlot licence, or is immediately adjacent to either private land or Crown land that is subject to a woodlot licence, or
 - (ii) the minister has served notice on the person that this section applies to the private land because unscaled timber stored in decks or piles on that land is at risk of being manufactured, mismarked or mixed with stumpage bearing timber from Crown land.

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(AM)
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01/07

- (2) Subsection (1) is subject to any additional timber marking requirement specified in an agreement referred to in section 12 of the Act or in a cutting permit.

[am. B.C. Regs. 422/97; 336/99, Sch. 1; 257/2007; 133/2011.]

**Timber marking requirements –
land transportation**

(SUB)
Mar
13/09

- 4.** (1) For the purpose of section 84 of the Act, before a person transports unscaled timber by truck or rail car, the correct timber mark must be legibly and conspicuously applied
- (a) on each side of the load of timber, truck or rail car, by using one of the following methods:
 - (i) writing the timber mark in paint or crayon on the timber;
 - (ii) attaching a sign displaying the timber mark to the timber, truck or rail car;
 - (iii) using another method as directed by the minister, and
 - (b) if the timber includes logs, by using a hammer indentation on at least 2 log ends at the front and at least 2 log ends at the back of the load of timber.
- (2) Subsection (1) is subject to any additional timber marking requirement specified in an agreement referred to in section 12 of the Act or in a cutting permit.
[am. B.C. Regs. 422/97; 257/2007; 387/2008; 104/2009; 237/2013, App. 2.]

(AM)
Nov
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(AM)
Sep
01/07

(SUB)**Timber marking requirements –
water transportation**
Sep
01/07

- 5.** (1) For the purpose of section 84 of the Act, before a person transports unscaled timber in rafts on the water, or as loose logs on a barge from which the logs will be dumped into the water, the correct timber mark must be legibly and conspicuously applied on one log end of each piece of timber using a hammer indentation.
- (2) For the purpose of section 84 of the Act, before a person transports unscaled timber in bundles, either in rafts on the water or on a barge from which the bundles will be dumped into the water,
- (a) the correct timber mark must be legibly and conspicuously applied to at least 2 log ends at the front and at least 2 log ends at the back of the load of timber using a hammer indentation, and
 - (b) the correct bundle tag must be attached to at least 2 log ends at the front and at least 2 log ends at the back of each bundle.
- (3) If the minister considers it necessary or desirable to minimize the risk of timber loss, the minister may impose additional timber mark requirements to those specified in subsection (2).
- (4) A person transporting timber under subsection (2) must comply with any conditions imposed under subsection (3) with respect to that timber.
- (5) For the purpose of section 84 of the Act, before a person transports unscaled timber by barge, truck or rail car on a barge or ferry, or in bundles on a barge from which the timber will not be dumped into the water, the correct timber mark must be legibly and conspicuously applied to each load or bundle using a hammer indentation on at least 2 log ends at the front and at least 2 log ends at the back.
[en. B.C. Reg. 257/2007; am. B.C. Regs. 387/2008; 237/2013, App. 2.]

(SUB)
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09/08

(AM)
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(AM)
Nov
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(SUB)
Dec
09/08

Exception

(AM)
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28/13

- 6.** If it is not feasible to apply the timber mark as required by section 5, the timber mark may be applied to each load or bundle as directed by the minister.
[am. B.C. Regs. 387/2008; 104/2009; 237/2013, App. 2.]

(SUB)**Scaled timber brand requirements –**

Mar land transportation

13/09

- 7.** For the purpose of section 86 of the Act, before a person transports scaled timber by truck or rail car, the correct scaled timber brand must be legibly and conspicuously applied
- (a) on each side of the load of timber, truck or rail car, by using one of the following methods:
 - (i) writing the timber brand in paint or crayon on the timber;
 - (ii) attaching a sign displaying the timber brand to the timber, truck or rail car;
 - (iii) using another method as directed by the minister, and
 - (b) if the timber includes logs, by using a hammer indentation on at least 2 log ends at the front and at least 2 log ends at the back of the load of timber.
[en. B.C. Reg. 104/2009; am. B.C. Reg. 237/2013, App. 2.]

(AM)
Nov
28/13**(SUB) Scaled timber brand requirements –****Sep water transportation**

01/07

- 7.1** (1) For the purpose of section 86 of the Act, before a person transports scaled timber in rafts on the water, or as loose logs on a barge from which the logs will be dumped into the water, the correct scaled timber brand must be legibly and conspicuously applied on one log end of each piece of timber using a hammer indentation.
- (2) For the purpose of section 86 of the Act, before a person transports scaled timber in bundles, either in rafts on the water or on a barge from which the bundles will be dumped into the water, a bundle tag must be attached, showing the correct scaled timber brand, to at least 4 log ends at the front and at least 4 log ends at the back of each bundle.
- (3) For the purpose of section 86 of the Act, before a person transports scaled timber by barge, truck or rail car on a barge or ferry, or in bundles on a barge from which the timber will not be dumped into the water, the correct scaled timber brand must be legibly and conspicuously applied to each load or bundle using a hammer indentation on at least 2 log ends at the front and at least 2 log ends at the back.
[en. B.C. Reg. 257/2007; am. B.C. Reg. 387/2008.]

(AM)
Dec
09/08(SUB)
Dec
09/08**(ADD) Scaled timber brands –****Sep additional requirements**

01/07

- 7.2** Sections 7 and 7.1 are subject to any additional scaled timber brand requirements specified in a certificate issued under section 87 of the Act.
[en. B.C. Reg. 257/2007.]

(SUB) ExceptionSep
01/07(SUB)
Nov
28/13(ADD)
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13/09

- 8.** (1) If it is not feasible to apply the scaled timber brand as required by section 7.1 or 7.2, the scaled timber brand may be applied to each load or bundle as directed by the minister.
- (2) Section 7 does not apply to special forest products referred to in section 1 (i) [woodchips] and (j) [hogged tree material] of the Special Forest Products

Regulation if those special forest products are produced from timber that has been scaled.

[en. B.C. Reg. 257/2007; am. B.C. Regs. 104/2009; 237/2013, App. 2.]

(SUB) **Marine log brand requirements**

Sep
01/07

9. (1) For the purpose of section 89 of the Act, if timber is marked with a marine log brand, the correct marine log brand must be applied using a hammer indentation on one log end of each piece of timber in rafts or bundles or on a barge.
- (2) Despite subsection (1), if timber described in that subsection is being transported in bundles, either in rafts on the water or on a barge from which the logs will be dumped into the water,
- (a) the correct marine log brand may be applied using a hammer indentation, or
- (b) a bundle tag showing the correct marine log brand may be attached to at least 4 log ends at the front and at least 4 log ends at the back of each bundle.

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[en. B.C. Reg. 257/2007; am. B.C. Reg. 387/2008.]

Documentation requirements

10. (1) A person who transports timber in British Columbia, or causes timber to be transported in British Columbia, whether the timber was harvested at a place within or outside of British Columbia, must, at all times, have in his or her possession a written record of the timber being transported.
- (2) The written record referred to in subsection (1) must include all of the following information:
- (a) identification, being
- (i) for timber transported by land, the licence number or name of the truck or rail car in which the timber is being transported, or
- (ii) for timber transported by water, a reference number corresponding to the boom, barge or vessel in which the timber is being transported;
- (b) a description of the location of origin of the timber;
- (c) the date on and time at which the transport of the timber begins;
- (d) the destination of the timber;
- (e) if the timber has not been scaled, the timber mark applied to the timber being transported;
- (e.1) if the timber has been scaled,
- (i) the scaled timber brand or marine log brand, or both, applied to the timber being transported, and
- (ii) the scaler's signature and licence number or the signature of an authorized person at the scale site;
- (f) the name and signature of the timber transport operator;
- (g) *Repealed.* [B.C. Reg. 257/2007]
- (h) for timber transported by land, a unique serial number;

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TIMBER MARKING AND TRANSPORTATION REGULATION 253/97

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- (i) for timber transported by water, the number or combination of numbers and letters showing on the bundle tag attached to the timber.
- (3) When timber is being transported, the following persons must ensure that the written record required by this section is accurately completed, and copies of the written record are retained and remitted as directed by the minister:

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- (a) the holder of the timber mark that is applied to the timber;

- (a.1) the transport operator;

- (b) the receiver of the timber or the operator of the scale site to which the timber is being transported;

(SUB)
Sep
01/07

- (c) the holder of the scaled timber brand and, if applicable, the marine log brand that is applied to the timber.

- (4) A person who is required by this section to carry or retain a copy of the written record must produce the record for inspection if requested to do so by a forest officer.

(AM)
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21/11

- (5) The minister may exempt a person from any or all of the requirements of this section.

[am. B.C. Regs. 422/1997; 257/2007; 133/2011; 237/2013, App. 2.]

Offence

(AM)
Sep
01/07

11.

A person who contravenes any of sections 2 (1) (b), 5 (2) (b) or (4), 7.1 (2) or 10 commits an offence and is liable on conviction to a fine if not more than \$50 000 or imprisonment for not more than 6 months, or both a fine and imprisonment.

[am. B.C. Reg. 257/2007.]

Note: This regulation replaces B.C. Reg. 567/78.

[Provisions of the *Forest Act*, RSBC 1996, c. 157, relevant to the enactment of this regulation: sections 84, 86, 89, 97, 151 (1.1), (2) (d) and (n.1) and (3)]

Load Description Slips (LDS) (FS 649)

Load description slips are documents that accompany timber in transport from the cut block or initial load out area to the place of scale, and provide a description of timber being transported, its origin, and its destination. They are also used for scaled timber, in which case they must identify the place where the timber was scaled. A forest officer can use this to monitor the movement of timber while in transport. The ministry requires the use of load description slips to accompany scaled or unscaled timber in transport. Alternatively, industry load slips may be approved by the ministry provided they contain all the necessary information.

The use of electronic load description slips may be approved by the Ministry if all the requirements under the Timber Marking and Transportation Regulation are met. If an electronic device does not function properly it will not be considered to be a valid load description slip. The truck driver's signature which is a legal requirement will be met if the truck driver has to "accept the information" on the device. Where electronic LDS is approved, the scale site must provide them in an electronic readable format, monthly to the ministry.

The LDS records must be kept in electronic or paper form for a period of 6 years.

BC Coastal Log Handling

Electronic Load Description Slip Creation Standard Operating Procedure (SOP)

SAFETY:

At all times site safety procedures shall take precedence over all other items.

OBJECTIVE:

As outlined in the approved project charter for the **Review of Coastal Log Transportation Process** dated April 26, 2018 new technologies available including GPS tracking and digital data transfers provide an opportunity to simplify, modernize and streamline timber marking and log transportation phases of the log handling.

This procedure details a Ministry approved process to capture source data requirements at point of truck loading using mobile Electronic Information System (e.g. 3LOG LoaderWiz, Mosaic's eLoadSlip). The procedure fulfills legislated documentation requirements to maintain chain of custody accountability from standing timber to primary scale destination and reduce errors at input and eliminates reentry of data into the licensee's scale system

SCOPE:

This procedure is applicable to the use of electronic load description slips¹ for land transportation of unscaled timber in coastal British Columbia forest operations.

Load description slips (LDS) are documents required by the Timber Marking and Transportation Regulation 253/97 (Sec. 10) to accompany timber in transport from the cut block or initial load out area to the place of scale. Load description slips describe the timber being transported, origin, destination, transport vehicle and operator.

DEFINITIONS:

GPS: Global Positioning Systems.

Loader: Equipment used to place logs onto transport equipment.

Ministry refers to the Ministry of Forests, Lands, Natural Resource Operations and Rural Development.

Stratum: A subdivision of the entire population.

Transport: method to deliver harvested logs to scaling site e.g. truck.

PROCEDURES:

¹ Load Description Slips are also referred to as Trip Tickets, Load Slips, Truck Slips

Commented [GEF1]: Confirm that scope is being limited to land transportation. However, do we need to limit it to unscaled timber? Perhaps including scaled timber for the LDS requirements when transporting scaled timber with a Timber Brand?

Commented [GEF2]: Clarification required on the origin location?

Commented [GEF3]: Consider expanding the definitions to include Ticket Generator, Transport Operator, Electronic Information System, etc?

Electronic Load Description Slip Creation

1. Licensee Scale System Pre-Work

The Electronic Information System (EIS) utilizes the licensee's systems (e.g. 3Log LIMS, Scheduler System) to access and store data. Prior to log load data collection, the system must be pre-populated with data required for the EIS to use and generate a load description slip to meet Ministry and licensee requirements.

Commented [GEF4]: Is the EIS going to be available for C&E inspection? If so, where?

2. Synchronization

The data in the EIS mobile devices is updated through syncing with a system database. Devices are synchronized regularly to ensure accurate information for both the loader operators and the licensee system. Devices require cellular or wireless internet connection to synchronize.

Commented [GEF5]: Where will mobile devices be located? Will they be accessible for inspection or audit?

The Ticket Generator (TG) is accountable to synchronize regularly and at a minimum:

- Prior to heading to block to receive any data changes from the licensee's scale system.
- Upon entering an area where an internet connection may be established. (e.g. marshall yard, site office, contractors' home) to synchronize the shipped loads.

Commented [GEF6]: Is the TG a person or a system? It would need to be a person in order to meet the legislated definition of a person.

Commented [GEF7]: Exactly what is being synchronized? Does there need to be control on specific locations in order to meet government's needs for meeting the ETA and for audit/inspection purposes (eg. At harvest location or at scale site?)

3. Generate a Load Record

- TG is accountable to ensure correct load information is entered at source.
- EIS fields may be configured to streamline data entry e.g. pre-populate with the last value entered

Commented [GEF8]: Will the TG have access to the data system to be able to meet TMTR requirements?

- Confirm LDS pre-populated header information

Field Name	Description	Data Source
LDS Slip #	Unique sequential number	Generated by IS based on value from scale system
Date	Date on and time at which the transport of timber begins	Derived using mobile device GPS functionality
Description of Location of Origin	Geographic Coordinates and/or block number	Derived using mobile device GPS functionality or entered manually
Operator ID	TG name or number	Scale system and selected by TG

Commented [GEF9]: Is this supposed to be EIS?

Commented [GEF10]: How is this system field to be monitored to ensure accuracy?

Commented [GEF11]: Can the eLDS also store GPS track for each transport event? The future state envisioned the ministry being able to access this information real time or proximal to the transport event?

- GPS Coordinates may be used to sort and/or filter source blocks within a defined radius distance for operator to select the correct source block and enter the remaining data elements.

Commented [GEF12]: Is manual entry not counter to automated eLDS creation? When would you need to enter location manually?

Data Element	Description	Data Source
Timbermark	Timber mark of timber	Licensee system and selected by TG
Destination	Scale site where timber is being transported for scaling	Licensee system and selected by TG
Contractor	Contractor's Name or ID	Licensee system and selected by TG
Carrier Identification	Truck number or Licensee Plate	Licensee system, filtered by contractor and selected by TG

Commented [GEF13]: Add Timber Brand in order to enable the eLDS for the transport of scaled timber?

Commented [GEF14]: Clarify whether this refers to logging contractor, hauling contractor, or?

Electronic Load Description Slip Creation

Data Element	Description	Data Source
Transport Operator	Name	Licensee system, filtered by contractor and selected by TG
Transport Operator's Signature	If required, LDS must be accepted at time of transfer from TG to TO	
Description of Timber and Load	Stratum	Licensee system and selected by TG
	Sort Code	

- Licensee may include additional fields for internal use.

c) Operator confirms LDS Information and saves the record as a shipped load.

4. Create an Electronic Load Description Slip

If required, the Ticket Generator provides the LDS to the Transport Operator as documentation of the timber to be transported. The Transport Operator must be able to provide the LDS for inspection upon request by a forest officer. LDS records will be retained and remitted in accordance with the scale site authorization.

If required, the Ticket Generator transmits LDS electronically to transport operator's device which the transport operator is required to "accept the information" on the device to meet the legal signature requirement. An acknowledgement of receipt is transmitted back to the Ticket Generator's device.

Note: If an electronic device does not function properly and the LDS cannot be provided it will not be considered a valid load description slip. Ticket Generator will utilize paper load description slips if the electronic load description slips are unavailable.

Other Comments/Questions:

- Does the SOP need to be clearer in terms of using either eLDS or paper LDS, with the only exception being the failure of the device to perform?
- Are we considering this SOP to be coast wide, or company specific? i.e. is the use of eLDS SOP creation authorized somehow?
- Do drivers carry portable printers to create hard copies of LDSs? Can they send electronic copies to a Natural Resource Officer or Forest Officer immediately if required?
- Can the truck driver change the info? How is this controlled?
- Do we need to address how audits or inspections of eLDS is going to work in the SOP?
- If you are using eLDS how are they stored and submitted to the ministry?
- How does the synchronizing of LDS #s work with this process? Should there be any concern over duplication of eLDS numbers between operators?

Commented [GEF15]: Include in definitions?

Commented [GEF16]: Must ensure the requirements set out in the *Electronic Transmission Act* are met regarding acceptance & verifying signatures.

Commented [GEF17]: Provide location of saving and backup.

Commented [GEF18]: When could you foresee this not being required?

Commented [GEF19]: What are the thoughts on self-loader trucks? Would they continue with paper LDS or is there another idea?

Commented [GEF20]: This reads like a form of an audit log, will this be accessible at time of inspection?

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: Action Items from August 7th WG Meeting
Date: December 20, 2019 2:31:54 PM

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: December 16, 2019 4:27 PM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: FW: Action Items from August 7th WG Meeting

From: Tudor, Keith FLNR:EX
Sent: August 8, 2019 3:01 PM
To: 'Les Kiss's.22'; Wedel, Michael FLNR:EX <Michael.Wedel@gov.bc.ca>; Bennett, Allan FLNR:EX <Allan.Bennett@gov.bc.ca>; 'Steve Trommel' <strommel@tealjones.com>; Smith, Jason M FLNR:EX <Jason.M.Smith@gov.bc.ca>; Hartland, Debbie K FLNR:EX <Debbie.K.Hartland@gov.bc.ca>; 'northshorescaling@telus.net' <northshorescaling@telus.net>; 'Mike Brack' <mike.brack@interfor.com>; 'Jennifer Peschke' <jennifer.peschke@mosaicforests.com>; 'bvinnedge@westernforest.com' <bvinnedge@westernforest.com>; Mitchell, Mary FLNR:EX <Mary.Mitchell@gov.bc.ca>; Logue, Carissa FLNR:EX <Carissa.Logue@gov.bc.ca>; Schellenberg, Grant FLNR:EX <Grant.Schellenberg@gov.bc.ca>
Subject: RE: Action Items from August 7th WG Meeting

Thanks Les.....

1) On the bucking card .. for this week and next .. any questions.. pls field to Debbie and Grant. For the week of Aug 19.. Carissa is back..... All bucking card questions should go to Carissa... and she will be following up with a meeting to discuss further.

2) To the point: Consideration of reducing grade classification to sawlog / pulp log or J grade and better and Y grade. I take this item to mean.. we are developing a system for bucking waste (based +- on the interior bucking card model)... where a component of the current sawlog priced bucking waste will charged at minimums. As I mentioned the other day.... In my view.. trying to develop a complex grading system for bucking waste should be avoided.

thanks again

K

From: Les Kiss's.22
Sent: August 8, 2019 1:34 PM
To: Wedel, Michael FLNR:EX <Michael.Wedel@gov.bc.ca>; Bennett, Allan FLNR:EX

<Allan.Bennett@gov.bc.ca>; 'Steve Trommel' <strommel@tealjones.com>; Smith, Jason M FLNR:EX <Jason.M.Smith@gov.bc.ca>; Hartland, Debbie K FLNR:EX <Debbie.K.Hartland@gov.bc.ca>; 'northshorescaling@telus.net' <northshorescaling@telus.net>; 'Mike Brack' <mike.brack@interfor.com>; 'Jennifer Peschke' <jennifer.peschke@mosaicforests.com>; Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>; 'bvinnedge@westernforest.com' <bvinnedge@westernforest.com>; Mitchell, Mary FLNR:EX <Mary.Mitchell@gov.bc.ca>; Logue, Carissa FLNR:EX <Carissa.Logue@gov.bc.ca>; Schellenberg, Grant FLNR:EX <Grant.Schellenberg@gov.bc.ca>

Subject: Action Items from August 7th WG Meeting

Keith et al – summary of action items from yesterday's meeting below.

Cheers, Les

Action Items from August 7th Working Group meeting:

- Terms of reference approved;
- Michael W. to distribute draft packing ratio procedures including pile shapes;
 - Michael W. to be in direct contact with COFI reps on contractor detail and pile sampling schedule;
 - Steve T. to see if there are any potential sample blocks in Fraser and Boston Bar areas;
 - Agreement for need to have consistent attendees for pile destructive sampling.
- COFI to draft coastal version of bucking card and contact Debbie H. directly if clarification required;
 - Consideration of reducing grade classification to sawlog / pulp log or J grade and better and Y grade.
 - Carissa L. to set up follow-up meeting in two weeks to review draft.
- COFI to provide input on sample design;
- COFI to provide input on assessment procedures for standing tree waste, stump height safety considerations etc. for waste manual update.
- Keith T. to set up a conference call in two weeks for work status update.

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: draft agenda Aug 7 coast waste meeting
Date: December 20, 2019 2:32:32 PM
Attachments: [Coast Waste Working Group TOR July 2019.docx](#)

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: December 16, 2019 4:23 PM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: FW: draft agenda Aug 7 coast waste meeting

From: Tudor, Keith FLNR:EX
Sent: August 6, 2019 10:10 AM
To: Bennett, Allan FLNR:EX <Allan.Bennett@gov.bc.ca>
Subject: FW: draft agenda Aug 7 coast waste meeting

Fyi

From: Les Kiss s.22
Sent: August 2, 2019 9:37 AM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: RE: draft agenda Aug 7 coast waste meeting

Morning Keith – updated TOR attached.

Cheers, Les

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: Thursday, August 01, 2019 3:58 PM
To: Les Kiss s.22
Cc: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: draft agenda Aug 7 coast waste meeting

Hi Les,

I've attached a draft agenda and a couple of rough papers that are intended to hopefully guide some of the discussion.

On the agenda... you will see an item on sample design – Coast. In order to move this one along.. I was hoping the industry folks could provide a brief paper documenting any concerns/ thoughts on the sample design standards.. hopefully prior to the meeting?

You mentioned you were going to update the TOR?

I think we should send this out early tomorrow morning??

Thanks for getting back to me.

Keith

Keith Tudor RPF
Manager Timber Measurements
Timber Pricing Branch
1520 Blanshard – 1st Floor
Victoria B.C. V8W 3K1
778 974 2462

JOINT COAST WASTE ASSESSMENT WORKING GROUP

Terms of Reference

Purpose

The Joint Waste Assessment Working Group will develop standards applicable to the measurement and grading of residual fibre remaining after primary harvesting completion. The overall task of the Working Group is to improve (modernize) the accuracy, efficiency and auditability of the coast waste measurement process.

Scope

- Coast Waste and Residue Manual
- Waste and related Scaling standards

Outcomes

1. Propose amendments to the measurement and grading of bucking waste (to be completed prior to December 1, 2019).
2. Complete destructive sampling of debris piles to support the development of packing ratios (ensure basic strata are assessed, i.e. old growth/second growth).
3. Develop standards for the measurement of Dry Grade Y.
4. Assess volume and profile of breakage.
5. Review waste sampling procedures developed for the Interior and determine if applicable to coastal timber profiles.
6. Amend waste manual with relevant outcome recommendations.
7. Coordinate government and industry waste measurement training.

Membership

- Co-chairs: Keith Tudor - FLNRO; Les Kiss – COFI;
- Jason Smith, Mary Mitchell, Michael Wedel, Carrissa Logue, Debbie Hartland - FLNRO
- Jennifer Peschke, Mike Brack, David Mack, Steve Trommel, Bruce Vinnedge – COFI

Frequency and Location of Meetings

- The Joint Waste Coast Working Group will meet as required to complete field work and to develop recommendations to meet December 1, 2019 timelines.
- Meetings will be held in Nanaimo and designated field locations.
- A call-in option will be made available when necessary.

August 2, 2019

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: Coast Waste Technical Working Group Meeting Aug 7 Victoria Timber Pricing Branch - FOI
Date: December 20, 2019 2:32:55 PM
Attachments: [Coast Waste Working Group TOR July 2019.docx](#)

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: December 16, 2019 4:09 PM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: FW: Coast Waste Technical Working Group Meeting Aug 7 Victoria Timber Pricing Branch - FOI

From: Tudor, Keith FLNR:EX
Sent: August 2, 2019 11:21 AM
To: Mitchell, Mary FLNR:EX <Mary.Mitchell@gov.bc.ca>; Logue, Carissa FLNR:EX <Carissa.Logue@gov.bc.ca>; Hartland, Debbie K FLNR:EX <Debbie.K.Hartland@gov.bc.ca>; Smith, Jason M FLNR:EX <Jason.M.Smith@gov.bc.ca>; Schellenberg, Grant FLNR:EX <Grant.Schellenberg@gov.bc.ca>; 'Les Kiss' s.22 <BVinnedge@westernforest.com>; 'BVinnedge@westernforest.com' s.22 <BVinnedge@westernforest.com>; Jennifer Peschke' <jennifer.peschke@mosaicforests.com>; 'David Mack' <northshorescaling@telus.net>; 'strommel@tealjones.com' <strommel@tealjones.com>; Wedel, Michael FLNR:EX <Michael.Wedel@gov.bc.ca>; Keith.Tudor@gov.bc.ca
Subject: RE: Coast Waste Technical Working Group Meeting Aug 7 Victoria Timber Pricing Branch

See TOR
K

-----Original Appointment-----

From: Tudor, Keith FLNR:EX
Sent: August 2, 2019 10:32 AM
To: Mitchell, Mary FLNR:EX; Logue, Carissa FLNR:EX; Hartland, Debbie K FLNR:EX; Smith, Jason M FLNR:EX; Schellenberg, Grant FLNR:EX; 'Les Kiss'; 'BVinnedge@westernforest.com' s.22 <BVinnedge@westernforest.com>; Jennifer Peschke; David Mack; 'strommel@tealjones.com'; Wedel, Michael FLNR:EX; Keith.Tudor@gov.bc.ca
Subject: Coast Waste Technical Working Group Meeting Aug 7 Victoria Timber Pricing Branch
When: August 7, 2019 10:00 AM-12:00 PM (UTC-08:00) Pacific Time (US & Canada).
Where: s.15

Folks,

Please find attached the draft agenda, several background papers and the conference call details for the upcoming meeting Aug 7 in Victoria.

thanks

Keith

Keith Tudor RPF
Senior Manager Timber Measurements
Timber Pricing Branch
1520 Blanshard – 1st Floor
Victoria B.C. V8W 3K1
778 974 2462

Join Skype Meeting

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Local - Vancouver: +1 (604) 398-9304, s.15	(BC, Canada)	English (United States)
Toll-Free: +1 (888) 952-9304, s.15	(BC, Canada)	English (United States)

[Find a local number](#)

Conference ID: **s.15**

[Forgot your dial-in PIN?](#) | [Help](#)

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August 2, 2019

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: draft agenda Aug 7 coast waste meeting - FOI
Date: December 20, 2019 2:33:17 PM

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: December 16, 2019 4:07 PM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: FW: draft agenda Aug 7 coast waste meeting - FOI

From: Tudor, Keith FLNR:EX
Sent: August 2, 2019 9:44 AM
To: 'Les Kiss' ^{s.22}
Subject: RE: draft agenda Aug 7 coast waste meeting

Thanks Les.. looks good.

I assume you're good for me to send out the agenda as per the last note and add the attachments ... etc?

K

From: Les Kiss <^{s.22}>
Sent: August 2, 2019 9:37 AM
To: Tudor, Keith FLNR:EX <[Keith.Tudor@gov.bc.ca](#)>
Subject: RE: draft agenda Aug 7 coast waste meeting

Morning Keith – updated TOR attached.

Cheers, Les

From: Tudor, Keith FLNR:EX <[Keith.Tudor@gov.bc.ca](#)>
Sent: Thursday, August 01, 2019 3:58 PM
To: Les Kiss ^{s.22}
Cc: Tudor, Keith FLNR:EX <[Keith.Tudor@gov.bc.ca](#)>
Subject: draft agenda Aug 7 coast waste meeting

Hi Les,

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of the discussion.

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Thanks for getting back to me.

Keith

Keith Tudor RPF
Manager Timber Measurements
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1520 Blanshard – 1st Floor
Victoria B.C. V8W 3K1
778 974 2462

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: interior waste destructive - packing ratios? - FOI request
Date: December 20, 2019 2:33:30 PM

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: December 16, 2019 4:05 PM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: FW: interior waste destructive - packing ratios? - FOI request

From: Tudor, Keith FLNR:EX
Sent: August 1, 2019 4:31 PM
To: 'Les Kiss' ^{s.22}
Subject: RE: interior waste destructive - packing ratios?

Thanks.. no swet.. Al mentioned it to me... just want to avoid any possible surprises.

From: Les Kiss ^{s.22}
Sent: August 1, 2019 1:40 PM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: RE: interior waste destructive - packing ratios?

Not sure on this Keith but will check with Jim Hackett who was on this file before he left to work with ministry.

Cheers, Les

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: Wednesday, July 31, 2019 4:43 PM
To: Les Kiss ^{s.22}
Subject: interior waste destructive - packing ratios?

Hi Les,

I've heard rumours the interior may be doing some destructive pile work. I discussed with Jim before he left and offered up some of Jim Throwers time if he wanted to kick methods etc around and run by us?

Anyway... just wondering if there's anything that might be coming our way from the interior folks..... as we have not been contacted around any standards/methods etc. thnks

Keith Tudor RPF
Manager Timber Measurements
Timber Pricing Branch
1520 Blanshard – 1st Floor
Victoria B.C. V8W 3K1
778 974 2462

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: draft agenda Aug 7 coast waste meeting - FOI request
Date: December 20, 2019 2:34:55 PM
Attachments: [Measurement of Dry Grade 4 and Y_Aug1.docx](#)
[coast_bucking_waste_Aug1.docx](#)
[DRAFT_Agenda_Coast_Technical_Waste_Working_Group_Aug7.docx](#)

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: December 16, 2019 4:05 PM
To: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: FW: draft agenda Aug 7 coast waste meeting - FOI request

From: Tudor, Keith FLNR:EX
Sent: August 1, 2019 4:18 PM
To: Smith, Jason M FLNR:EX <Jason.M.Smith@gov.bc.ca>
Subject: FW: draft agenda Aug 7 coast waste meeting

From: Tudor, Keith FLNR:EX
Sent: August 1, 2019 3:58 PM
To: Kiss, Les FLNR:IN^{s.22}
Cc: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: draft agenda Aug 7 coast waste meeting

Hi Les,

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Keith

Keith Tudor RPF
Manager Timber Measurements
Timber Pricing Branch
1520 Blanshard – 1st Floor
Victoria B.C. V8W 3K1
778 974 2462

Prepared by Timber Pricing Branch
Aug 1 , 2019

The Measurement of Dry Grade 4/Y in the new waste measurement system for the Coast

Background:

Timber Pricing Branch has been directed to develop waste and residue standards to measure dry grade Y on the coast.

The interior dry grade 4 standards recognized the need to align, to the extent possible with the cruise definition of dead potential (>50% of the original gross volume is firmwood) and the scale standards that recognize the merchantability definition between grade 4 and Z grade.

Further background on the interior standard follow.

Grade code Z and 4

The measurement of Grade code Z is optional. It isn't billed as waste or for cut control. In 9.5.1.1 the Scaling Manual defines Grade code Z as A log where:

“heart rot or hole runs the entire length of the log and the residual collar of the firmwood constitutes less than 50 percent of the gross scale of the log, rot is in the log and the scaler estimates the net length of the log to be less than 1.2 m, or sap rot or charred wood exists and the residual firmwood is less than 10 cm in diameter at the butt end of the log or the portion of a log that is less than 10 cm in diameter or that portion of a slab that is less than 10 cm in thickness

Grade Code Z is defined in the Waste manual for bucking waste as rot at both ends of the piece and less than 50% sound. Bucking waste must meet Grade code Z criteria as per the Scaling Manual.

Grade Code 4 is defined in the Scaling Manual as a log or slab lower in grade than sawlog and higher in grade code Z.

All dead pieces greater than fifty percent (50%) sound that meet or exceed the TMS must be measured.

Sawlog (Default to Grade 2 acceptable)

1. For a hemlock or cedar log or slab, at least 75 percent of the gross scale can be manufactured into lumber.
2. For a balsam log, at least 67 percent of the gross scale can be manufactured into lumber.
3. For all other species at least 50 percent of the gross scale can be manufactured into lumber.
4. For all species, at least 50 percent of the lumber will be merchantable

Bucking Waste Grade Matrix (Grade 4/5 dead bucking waste defined below)

Top pieces

- o **Grade 4:** Live/green pieces with 1 or more checks to the heart, or 1 or more oversize knots, or greater than 4cm Spiral Grain
- o **Grade 5: Dead** pieces with 1 or more checks, or 1 or more oversize knots, or greater than 4cm Spiral Grain

• Middle pieces

- o **Grade 4:** Live/green pieces with 2 or more 4 cm deep checks, or 3 or more oversize knots, or severe shatter, or greater than 15% Spiral Grain
- o **Grade 5: Dead** pieces with 2 or more 4cm deep checks, or 3 or more oversize knots, or severe shatter, or greater than 15% Spiral Grain

• Butt pieces

- o **Grade 4:** Live/green pieces with 3 or more 4 cm checks, or severe shatter, or greater than 15% spiral grain, severe scar/defect from surface to heart greater than 25% of diameter, or 25-50% heart rot
- o **Grade 5: Dead** pieces with 3 or more 4 cm checks, 3 or severe shatter or greater than 15% spiral grain, severe scar/defect from surface to heart greater than 25% of diameter, or 25-50% heart rot

Prepared by Timber Pricing Branch

July 31, 2019

Purpose:

The purpose of this paper is to outline some of the logic that went into the development of the interior waste bucking standards, present the current interior bucking standards and to propose a possible model for the coast.

Timber Pricing Branch is requesting feedback and suggestions from coast industry on a possible model for the coast.

The deadline for finalizing the standards is early Sept to allow for the measurement of bucking waste in the destructive pile work.

Specifications that were applied to the Interior standards:

1. The quality or 'merchantability' of bucking waste is determined by assessing oversize knots, checks, shatter, rot and severe defect, and/or > 15% spiral grain.
2. The short lengths as well as field conditions that affect the measurement and classification of the pieces limit the amount of information available to correctly assign a grade code therefore scaling bucking waste as it lays is not applied to bucking waste.
3. A grade matrix was developed to provide a reasonable, repeatable and accurate method of identifying bucking waste grades. The objective of the grading matrix is to assign the grade that most likely would be correct for the piece given its current dimensions and condition. The grading matrix has been designed so it will not always generate the correct grade on all pieces; however, it should generate the most likely grade on most pieces.

New Interior Bucking Waste Grading Field Card and Bucking Waste Rules

No severe deformity for Grade 1 and 2 is defined in the top, middle and butt descriptions on this bucking waste card.

Bucking Waste Grading Field Card						
% Sound	Waste Class	Piece Grade			Description	
<50%	A / U	Grade 'Z'			Optional, Scaling Manual Sec 9.5, W2 volume, Non AAC, Non Billable, must show rot at both ends	
>50%	A/U	Grade '6'			15cm, Other Species <20cm at 15cm, Must contain evidence of felling cut.	
	U	Grade 1,2			Grade not auditable, Non Billable	
		Grade 4,5			Grade defined as below, Non Billable	
	A	SL (1,2)			Sound/Round, No severe defect or deformity, <3 checks, Butt Rot must be conical shape, 3/4 and 4/4 dia. rot will normally appear as through rot and be graded Z, Slabs >7.5R	
		Top	Mid	Butt		
		4(5)			1 or more checks to heart, >1 OS knots, >4cm SG	
			4(5)		2 or more checks >4cm, >3 OS knots, severe shatter, >15% SG	
			4(5)	, Shatter, > 3-4cm checks, >15% SG, Severe scar/defect from surface to heart > 25% of Dia, 25-50% Heart Rot		
Piece Type		Top = Cut butt extending to utilization or broken top (<5R) Middle = cut or broken with no evidence of utilization top or felling cut Butt= piece includes evidence of felling cut				

Comparison of current interior bucking card standards and a potential coast bucking card standard

Bucking Waste Rules - Coast vs. Interior Aug 1 19		
<i>* Assumption that all pieces below have a gross length of 0.1m to 2.9m and originated from a log or tree greater than minimum sawlog timber utilization standards (TMS)</i>		
Rule	Coast Rules	Interior Rules
All bucking waste that is 50% or more of the original log diameter and meets the TMS must be measured and recorded	Tally	Tally
Piece: top cut and broken butt in accumulations	Tally	No Tally
Piece: top cut and broken butt in dispersed	No Tally	No Tally
Piece: cut butt and broken or cut top in Accumulations and Dispersed	Tally	Tally
Piece: felled butt, broken top	No Tally	No Tally
Z grade as per scaling manual	Optional Tally	Optional Tally
Grading bucking waste	<p>Tally</p> <p>Graded sawlog unless excessive oversized knots, Spiral Grain, or ring shake <u>or</u> if the parent log is present.</p> <p>No allowance to downgrade for (grade defaults to sawlog for the defect below)</p> <ul style="list-style-type: none"> • Severe Shatter • Checks • Severe scar/defect from surface to heart > 25% of diameter in the butt piece (evidence of flare) • 25-50% Heart Rot Piece in the butt piece (evidence of flare) 	<p>Tally</p> <p>Assign the grade for top, middle or butt piece as per the bucking card.</p> <p>Parent log no longer applies to bucking waste instead the following defects are eligible for downgrade in bucking waste.</p> <ul style="list-style-type: none"> • Knots, • Spiral grain, • Checks • Severe Shatter • Severe scar/defect from surface to heart > 25% of diameter in the butt piece (evidence of flare) • 25-50% Heart Rot Piece in the butt piece (evidence of flare)

Grading criteria	Based on top diameter	Grading criteria based on whether the piece is a top, middle and butt. Top -cut butt extending to utilization or broken top < or equal 5 R Middle -Cut or broken with no evidence of utilization or broken top or felling cut. Butt - piece includes evidence of felling cut
Allowed to pencil buck forks, excessive crook or other deformities for class (unavoidable)	Yes	Yes
Minimum top diameter for immature blocks = 5 R top inside bark Coast = U grade Interior = Except Cedar >141 years	Yes	Yes
Minimum top diameter for mature = 7.5 R top inside bark Coast = J grade Interior = Cedar >141 years	Yes	Yes
Piece <50% of original diameter, <0.4m long and >TMS	No Tally	No Tally
Grading sequential pieces	All pieces are recorded and assessed individually	Sequential pieces of bucking waste from the same log are tallied and graded as a single piece
Pieces <50% of original log diameter (at the butt) with a broken top and <0.4m gross length	No Tally	No Tally

DRAFT Agenda: Technical Waste Working Group

Wednesday August 7 2019

s.15

(Note: Public Parking: Fisgard and Douglas)

10:00 am to 12:00

1) Introductions:

New member Grant Schellenberg

2) Review TOR

Les/Keith

3) Waste Piles for Destructive Sampling

- Update Mike Wedel
- Next Steps

4) Bucking Waste:

- Review discuss Interior model/handout – Debbie Hartland
- Next steps

5) Standards for dry Y

- Review discuss interior model/handout – Debbie Hartland
- Next Steps

6) Breakage Study Update

- TPB to provide update

7) Sample Design – Coast

- TPB requesting industry feedback

8) Provincial Waste Manual Development

- TPB to provide update

9) Training

- General discussion

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#); [Les Kiss, s.22](#) ; BVinnedge@westernforest.com; [Schellenberg, Grant FLNR:EX](#); strommel@tealjones.com; [Jennifer Peschke](#); [David Mack](#); [Mitchell, Mary FLNR:EX](#); [Logue, Carissa FLNR:EX](#); [Hartland, Debbie K FLNR:EX](#); [Smith, Jason M FLNR:EX](#); [Wedel, Michael FLNR:EX](#)
Cc: [Kurt Niquidet](#)
Subject: FW: Coast Waste Technical Working Group

-----Original Appointment-----

From: Tudor, Keith FLNR:EX
Sent: August 22, 2019 12:19 PM
To: Tudor, Keith FLNR:EX; Les Kiss, s.22 ; BVinnedge@westernforest.com
<<mailto:BVinnedge@westernforest.com>> ; [Schellenberg, Grant FLNR:EX](#); strommel@tealjones.com <<mailto:strommel@tealjones.com>> ; [Jennifer Peschke](#); [David Mack](#); [Mitchell, Mary FLNR:EX](#); [Logue, Carissa FLNR:EX](#); [Hartland, Debbie K FLNR:EX](#); [Smith, Jason M FLNR:EX](#); [Wedel, Michael FLNR:EX](#)
Cc: Kurt Niquidet
Subject: Coast Waste Technical Working Group
When: September 5, 2019 1:30 PM-3:00 PM (UTC-08:00) Pacific Time (US & Canada).
Where: TPB 1520 Blanshard Rm 101 and Conf Call

.....
Folks:

Action items from August 22:

- Thanks to Mike Brack for preliminary bucking card
- Carissa to coordinate Ministry thoughts/options on bucking card/distribute week of August 26
- Mike W to continue on setting up pile contract work

Draft Agenda for Sept 5th meeting

- * Waste Pile Sampling Update
- * Bucking Card Discussion

Thanks again

Keith
.....

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From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: Coast Waste Technical Working Group - Update
Date: December 20, 2019 2:36:20 PM
Attachments: [Draft Coast Bucking Card.msg](#)

From: Tudor, Keith FLNR:EX

Sent: August 21, 2019 11:22 AM

To: Kiss, Les FLNR:IN^{s.22}

'BVinnedge@westernforest.com' <BVinnedge@westernforest.com>; Schellenberg, Grant FLNR:EX <Grant.Schellenberg@gov.bc.ca>; 'strommel@tealjones.com' <strommel@tealjones.com>; 'Jennifer Peschke' <jennifer.peschke@mosaicforests.com>; 'David Mack' <northshorescaling@telus.net>; Mitchell, Mary FLNR:EX <Mary.Mitchell@gov.bc.ca>; Logue, Carissa FLNR:EX <Carissa.Logue@gov.bc.ca>; Hartland, Debbie K FLNR:EX <Debbie.K.Hartland@gov.bc.ca>; Smith, Jason M FLNR:EX <Jason.M.Smith@gov.bc.ca>; Wedel, Michael FLNR:EX <Michael.Wedel@gov.bc.ca>

Subject: RE: Coast Waste Technical Working Group - Update

Folks,

Just a reminder for the call tomorrow and thanks to Mike for working on the bucking card. See attached note from Les.

Thnks

-----Original Appointment-----

From: Tudor, Keith FLNR:EX

Sent: August 8, 2019 10:04 AM

To: Tudor, Keith FLNR:EX; Les Kiss;^{s.22}

BVinnedge@westernforest.com;

Schellenberg, Grant FLNR:EX; strommel@tealjones.com; Jennifer Peschke; David Mack; Mitchell, Mary FLNR:EX; Logue, Carissa FLNR:EX; Hartland, Debbie K FLNR:EX; Smith, Jason M FLNR:EX; Wedel, Michael FLNR:EX

Subject: Coast Waste Technical Working Group - Update

When: August 22, 2019 11:00 AM-12:00 PM (UTC-08:00) Pacific Time (US & Canada).

Where: Skype Meeting

Folks,

Purpose of this meeting is to provide an update on the status of the Coast Waste TWG.

Action items from Aug 7 meeting:

- Mike W to contact industry for contractor/block availability
- Mike W to send out packing ratio pile models
- Coast Industry to review interior bucking card and provide comments/suggestions for coastal

application

- Carissa to review bucking card grade requirements W/TWG

thanks

Keith

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From: Kiss, Les FLNR:IN []
To: Tudor, Keith FLNR:EX [Keith.Tudor@gov.bc.ca]
CC: Mike Brack [mike.brack@interfor.com]
Subject: Draft Coast Bucking Card
Date: Wednesday, August 21, 2019 10:41:25
Attachment 1: Coastal Bucking Card.xlsx

Here you go Keith. The draft reflects some input from Debbie and Jason and has been provided to Carrisa. Mike will walk us through it on the call tomorrow.

Cheers, Les

COASTAL BUCKING CARD

for Bucking Waste 0.25 m to 2.99 m in length

Trim less than 0.25 m is No Tally

% Sound	Waste Class	Kind	Grade	Comments
> 50% Metric Deduction	No Tally	No Tally	Z	Firm wood reject. Chapter 10-4 Coastal Scaling Manual 1. Heart rot >50% of gross scale of waste piece 2. Net length under 0.25m for rot deduction 3. Sap rot or char leaving less than 10cm firm heart wood
> 33.3% Grade Consideration	W	A/U	Y	Any avoidable waste over 0.24m but under 66.6 % sound for BK, CA, CK, CR, DP, FC, FK, HK, KN, SH, SL, SW, WS, HR or PR Defective bucking waste can be pencil bucked to separate avoidable waste from unavoidable waste portion
All avoidable bucking waste displaying conk or pin rot is automatically graded Y				
small diam	W	A/U	Y	Bucking waste 5 to 7 rad butt cut all species Automatically graded Y
Slabs < 8 r thick	W	A/U	Y	All slab pieces cut < 8r average thickness Y grade all species
Twist	W	A/U	Y	Waste 11% or greater twist automatic Y grade all species
< 66.6% G.C.	W	A/U	J	All 8 rad waste cut over 0.24 m and 66.6% sound or better meeting knot/twist specs coded full stumpage J for grade.
all measurements in rads Waste automatically graded Y for one over-sized knot		KNOT SPEC TABLE		
		Waste Diam	J	Y
		5 to 7	All waste automatic Y	
		8 to 13	2 or less	over 2 rads
		14 to 18	3 or less	over 3 rads
		19 to 24	4 or less	over 4 rads
		25+	5 or less	over 5 rads
Waste surveyors MUST be competent in Chapter 8 Coastal Scaling Manual field procedures to calculate both the metric deduction and the grade consideration for netting down timber volume.				

BK = Breakage

CA = Candlabra

CK = Crook

CR = Severe Crook

DP = Dead Potential

FC = Frost Crack

FK = Fork

HK = Hook

KN = Knots

SH = Shatter

SL = Slab

SW =

WS = Water Shake

HR = Heart Rot

PR = Pocket Rot

sap rot, char, sun check, insect damage

bark seams, fluting or butt rot > 33.3% G.C. = Y Grade

Waste

From: [Tudor, Keith FLNR:EX](#)
To: [Chipper, Tammy L FLNR:EX](#)
Subject: FW: draft agenda Aug 7 coast waste meeting
Date: December 20, 2019 2:36:49 PM
Attachments: [Measurement of Dry Grade 4 and Y_Aug1.docx](#)
[coast_bucking_waste_Aug1.docx](#)
[DRAFT_Agenda_Coast_Technical_Waste_Working_Group_Aug7.docx](#)

From: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Sent: August 1, 2019 3:58 PM
To: Kiss, Les FLNR:IN s.22
Cc: Tudor, Keith FLNR:EX <Keith.Tudor@gov.bc.ca>
Subject: draft agenda Aug 7 coast waste meeting

Hi Les,

I've attached a draft agenda and a couple of rough papers that are intended to hopefully guide some of the discussion.

On the agenda... you will see an item on sample design – Coast. In order to move this one along.. I was hoping the industry folks could provide a brief paper documenting any concerns/ thoughts on the sample design standards.. hopefully prior to the meeting?

You mentioned you were going to update the TOR?

I think we should send this out early tomorrow morning??

Thanks for getting back to me.

Keith

Keith Tudor RPF
Manager Timber Measurements
Timber Pricing Branch
1520 Blanshard – 1st Floor
Victoria B.C. V8W 3K1
778 974 2462

Prepared by Timber Pricing Branch
Aug 1 , 2019

The Measurement of Dry Grade 4/Y in the new waste measurement system for the Coast

Background:

Timber Pricing Branch has been directed to develop waste and residue standards to measure dry grade Y on the coast.

The interior dry grade 4 standards recognized the need to align, to the extent possible with the cruise definition of dead potential (>50% of the original gross volume is firmwood) and the scale standards that recognize the merchantability definition between grade 4 and Z grade.

Further background on the interior standard follow.

Grade code Z and 4

The measurement of Grade code Z is optional. It isn't billed as waste or for cut control. In 9.5.1.1 the Scaling Manual defines Grade code Z as A log where:

“heart rot or hole runs the entire length of the log and the residual collar of the firmwood constitutes less than 50 percent of the gross scale of the log, rot is in the log and the scaler estimates the net length of the log to be less than 1.2 m, or sap rot or charred wood exists and the residual firmwood is less than 10 cm in diameter at the butt end of the log or the portion of a log that is less than 10 cm in diameter or that portion of a slab that is less than 10 cm in thickness

Grade Code Z is defined in the Waste manual for bucking waste as rot at both ends of the piece and less than 50% sound. Bucking waste must meet Grade code Z criteria as per the Scaling Manual.

Grade Code 4 is defined in the Scaling Manual as a log or slab lower in grade than sawlog and higher in grade code Z.

All dead pieces greater than fifty percent (50%) sound that meet or exceed the TMS must be measured.

Sawlog (Default to Grade 2 acceptable)

1. For a hemlock or cedar log or slab, at least 75 percent of the gross scale can be manufactured into lumber.
2. For a balsam log, at least 67 percent of the gross scale can be manufactured into lumber.
3. For all other species at least 50 percent of the gross scale can be manufactured into lumber.
4. For all species, at least 50 percent of the lumber will be merchantable

Bucking Waste Grade Matrix (Grade 4/5 dead bucking waste defined below)

Top pieces

- o **Grade 4:** Live/green pieces with 1 or more checks to the heart, or 1 or more oversize knots, or greater than 4cm Spiral Grain
- o **Grade 5: Dead** pieces with 1 or more checks, or 1 or more oversize knots, or greater than 4cm Spiral Grain

• Middle pieces

- o **Grade 4:** Live/green pieces with 2 or more 4 cm deep checks, or 3 or more oversize knots, or severe shatter, or greater than 15% Spiral Grain
- o **Grade 5: Dead** pieces with 2 or more 4cm deep checks, or 3 or more oversize knots, or severe shatter, or greater than 15% Spiral Grain

• Butt pieces

- o **Grade 4:** Live/green pieces with 3 or more 4 cm checks, or severe shatter, or greater than 15% spiral grain, severe scar/defect from surface to heart greater than 25% of diameter, or 25-50% heart rot
- o **Grade 5: Dead** pieces with 3 or more 4 cm checks, 3 or severe shatter or greater than 15% spiral grain, severe scar/defect from surface to heart greater than 25% of diameter, or 25-50% heart rot

Prepared by Timber Pricing Branch

July 31, 2019

Purpose:

The purpose of this paper is to outline some of the logic that went into the development of the interior waste bucking standards, present the current interior bucking standards and to propose a possible model for the coast.

Timber Pricing Branch is requesting feedback and suggestions from coast industry on a possible model for the coast.

The deadline for finalizing the standards is early Sept to allow for the measurement of bucking waste in the destructive pile work.

Specifications that were applied to the Interior standards:

1. The quality or 'merchantability' of bucking waste is determined by assessing oversize knots, checks, shatter, rot and severe defect, and/or > 15% spiral grain.
2. The short lengths as well as field conditions that affect the measurement and classification of the pieces limit the amount of information available to correctly assign a grade code therefore scaling bucking waste as it lays is not applied to bucking waste.
3. A grade matrix was developed to provide a reasonable, repeatable and accurate method of identifying bucking waste grades. The objective of the grading matrix is to assign the grade that most likely would be correct for the piece given its current dimensions and condition. The grading matrix has been designed so it will not always generate the correct grade on all pieces; however, it should generate the most likely grade on most pieces.

New Interior Bucking Waste Grading Field Card and Bucking Waste Rules

No severe deformity for Grade 1 and 2 is defined in the top, middle and butt descriptions on this bucking waste card.

Bucking Waste Grading Field Card					
% Sound	Waste Class	Piece Grade			Description
<50%	A / U	Grade 'Z'			Optional, Scaling Manual Sec 9.5, W2 volume, Non AAC, Non Billable, must show rot at both ends
>50%	A/U	Grade '6'			15cm, Other Species <20cm at 15cm, Must contain evidence of felling cut.
	U	Grade 1,2			Grade not auditable, Non Billable
		Grade 4,5			Grade defined as below, Non Billable
	A	SL (1,2)			Sound/Round, No severe defect or deformity, <3 checks, Butt Rot must be conical shape, 3/4 and 4/4 dia. rot will normally appear as through rot and be graded Z, Slabs >7.5R
		Top	Mid	Butt	
		4(5)			1 or more checks to heart, >1 OS knots, >4cm SG
			4(5)		2 or more checks >4cm, >3 OS knots, severe shatter, >15% SG
			4(5)	, Shatter, > 3-4cm checks, >15% SG, Severe scar/defect from surface to heart > 25% of Dia, 25-50% Heart Rot	
Piece Type		Top = Cut butt extending to utilization or broken top (<5R) Middle = cut or broken with no evidence of utilization top or felling cut Butt= piece includes evidence of felling cut			

Comparison of current interior bucking card standards and a potential coast bucking card standard

Bucking Waste Rules - Coast vs. Interior Aug 1 19		
<i>* Assumption that all pieces below have a gross length of 0.1m to 2.9m and originated from a log or tree greater than minimum sawlog timber utilization standards (TMS)</i>		
Rule	Coast Rules	Interior Rules
All bucking waste that is 50% or more of the original log diameter and meets the TMS must be measured and recorded	Tally	Tally
Piece: top cut and broken butt in accumulations	Tally	No Tally
Piece: top cut and broken butt in dispersed	No Tally	No Tally
Piece: cut butt and broken or cut top in Accumulations and Dispersed	Tally	Tally
Piece: felled butt, broken top	No Tally	No Tally
Z grade as per scaling manual	Optional Tally	Optional Tally
Grading bucking waste	<p>Tally</p> <p>Graded sawlog unless excessive oversized knots, Spiral Grain, or ring shake <u>or</u> if the parent log is present.</p> <p>No allowance to downgrade for (grade defaults to sawlog for the defect below)</p> <ul style="list-style-type: none"> • Severe Shatter • Checks • Severe scar/defect from surface to heart > 25% of diameter in the butt piece (evidence of flare) • 25-50% Heart Rot Piece in the butt piece (evidence of flare) 	<p>Tally</p> <p>Assign the grade for top, middle or butt piece as per the bucking card.</p> <p>Parent log no longer applies to bucking waste instead the following defects are eligible for downgrade in bucking waste.</p> <ul style="list-style-type: none"> • Knots, • Spiral grain, • Checks • Severe Shatter • Severe scar/defect from surface to heart > 25% of diameter in the butt piece (evidence of flare) • 25-50% Heart Rot Piece in the butt piece (evidence of flare)

Grading criteria	Based on top diameter	Grading criteria based on whether the piece is a top, middle and butt. Top -cut butt extending to utilization or broken top < or equal 5 R Middle -Cut or broken with no evidence of utilization or broken top or felling cut. Butt - piece includes evidence of felling cut
Allowed to pencil buck forks, excessive crook or other deformities for class (unavoidable)	Yes	Yes
Minimum top diameter for immature blocks = 5 R top inside bark Coast = U grade Interior = Except Cedar >141 years	Yes	Yes
Minimum top diameter for mature = 7.5 R top inside bark Coast = J grade Interior = Cedar >141 years	Yes	Yes
Piece <50% of original diameter, <0.4m long and >TMS	No Tally	No Tally
Grading sequential pieces	All pieces are recorded and assessed individually	Sequential pieces of bucking waste from the same log are tallied and graded as a single piece
Pieces <50% of original log diameter (at the butt) with a broken top and <0.4m gross length	No Tally	No Tally

DRAFT Agenda: Technical Waste Working Group

Wednesday August 7 2019

s.15

(Note: Public Parking: Fisgard and Douglas)

10:00 am to 12:00

1) Introductions:

New member Grant Schellenberg

2) Review TOR

Les/Keith

3) Waste Piles for Destructive Sampling

- Update Mike Wedel
- Next Steps

4) Bucking Waste:

- Review discuss Interior model/handout – Debbie Hartland
- Next steps

5) Standards for dry Y

- Review discuss interior model/handout – Debbie Hartland
- Next Steps

6) Breakage Study Update

- TPB to provide update

7) Sample Design – Coast

- TPB requesting industry feedback

8) Provincial Waste Manual Development

- TPB to provide update

9) Training

- General discussion