Northland Forest Products Ltd.
and
Alberta-Pacific Forest Industries Inc.

Forest Harvest Plan

Planning Compartment East Fort McMurray

Planning Unit 089084

CTLA020011

Forest Harvest Plan – EFM16-21

Date Submitted: December 12, 2016

Version 1.0

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1.0 Introduction

This integrated Forest Harvest Plan (FHP) details the timber harvest activities for fire damaged stands within Forest Management Unit A14; Planning Unit 089084/CTLA020011. This plan is being submitted for appraisal, for a five-year FHP approval under 2016/17 Northland Forest Products Ltd. (Northlands) and Alberta-Pacific Forest Industries Inc. (Alberta-Pacific) respective Annual Operating Plans (AOPs). Plan integration will significantly reduce the number of roads and overall disturbance of harvest operations.

This plan, EFM16-21, comprises 5 proposed coniferous cutblocks and 4 proposed deciduous cutblocks with a total area of 1,217 ha. Total estimated volumes are 134,200 m^3 conifer and 175,905 m^3 deciduous including incidental, however, utilizable volume is estimated to be lower due to the burn. All cutblocks will be harvested in the winter under frozen ground conditions.

This plan has been developed following the objectives outlined in the Horse River Fire Salvage Plan submitted on August 9, 2016. This FHP has also been discussed with Alberta Agriculture and Forestry (AAF).

2.0 Integration with Other Stakeholders

2.1 Trapper Referral & Comments

Letters and maps were sent by registered mail to trapline holders potentially affected by this FHP (Table 1).

Table 1: Trapline Holders

Trapline number	Holder	Address	Date contacted by Registered Mail (letter and map)
TPA 1582	Douglas Golosky	42 Freestone Way Fort McMurray, AB T9H 5B4	October 13, 2016
TPA 2422	Richard Golosky	107 Fraser Ave. Fort McMurray, AB T9H 1Y9	October 13, 2016
TPA 273	Bernice Cree	Site 404, Mod 3, Comp 01, RR2 Fort McMurray, AB T9H 5S1	October 13, 2016

Notice of commencement of operations will also be sent out no later than ten days before operations begin.

Northlands and Alberta Pacific will respond promptly to any requests that trappers may have as it concerns their traplines and the public in general.

A trapper cabin was located near blocks 109C (Opening Number: 4080893369) and 109D (Opening Number: 4080893348). A buffer of approximately 150 meters was left on the cabin.

2.2 Forest Recreation Groups/Guides & Outfitters/Grazing Lease Operators

No recreation groups, guides or outfitters have been identified. If signs of an outfitter are found, they will be contacted and informed of operations in the area. There are no grazing lease operators in the area.

2.3 Historical Resource Protection

The FHP area was screened for areas with a high or moderate potential for historical resource values. Sites that were identified were avoided during layout and are shown on the FHP map.

2.4 Integration with FMA Holder

This is an integrated plan between the FMA holder and CTL holder. Both companies have validated the plan (Section 9.0).

2.5 Third Party Agreements

The companies will obtain consent from Laricina Energy Ltd for the use of LOC 070433, ExxonMobil Canada Properties for the use of LOC 801730 and LOC 820317, Value Creation for the use of LOC 120858 and LOC 121271, as well as, facility crossing agreements with disposition holders as needed for crossings in this plan prior to operations.

2.6 Consultative and Protective Notations

Within the FHP area there are several consultative or protective notation that may be impacted (Table 2).

Table 2: Consultative and Protective Notations

Disposition	Holder	Comments
PNT 710477	Fort McMurray Office - Lands	PNT is for a silviculture plot; no dispositions to be issued without referral to the silviculture section. Contact was made on November 24th – no response has been received. Blocks 102C (Opening Number: 4080893531) and 102D (Opening Number: 4080893615) are located within this PNT.
CNT 090030	Fort McMurray Office – Wildfire Management	FIRESMART Community Zone – no referral required for timber dispositions.
CNC 140011	Value Creation Inc.	CNC is to avoid conflicts with the development of the Tri-Star Northeast Project. Referral required for application of new dispositions only. Notification completed – no conflict.

2.7 Restricted Areas

There are no blocks within this FHP that border restricted areas (ie: PSPs, private land etc.).

2.8 First Nations Consultation

First Nation Consultation was completed with the 'Horse River Fire Salvage Plan'. No concerns have been identified at this time.

3.0 Operational Considerations

3.1 Caribou/Wildlife Protection

The access route to the FHP area travels through a Key Wildlife and Biodiversity Zone (KWBZ) along DLO 972098. None of the proposed cutblocks are located within a wildlife protection area. Should operations extend past the restricted activity period for the KWBZ, extensions will be requested.
A search of the Fish and Wildlife Management Information System (FWMIS) database was completed on November 22, 2016. Species that have been reported in this area include:

- Brown Creeper
- Cape May Warbler
- Common Yellowthroat
- Fisher
- Great Gray Owl
- Least Flycatcher
- Northern Long-eared Bat
- Red Bat
- Sandhill Crane
- Silver-haired Bat
- Western Tanager

Of the species reported through the FWMIS database search, the cape may warbler has been recommended to be listed as a 'Species of Special Concern'. The northern myotis (northern long-eared bat) is listed as 'Data Deficient' in Alberta but is federally listed as Endangered.

The northern myotis does overwinter in Alberta, however, will scout out caves or old mines for hibernacula. None are known within the area covered by this FHP. As per OGR **Section 7.7.6**, a 100-meter buffer will be left on bat hibernacula.

The brown creeper, cape may warbler, common yellowthroat, least flycatcher, sandhill crane and western tanager begin their southern migration in the fall and will not be present when the blocks outlined in this FHP are harvested. The silver haired bat and red bat also do not overwinter in Alberta so will not be present while harvest operations are underway. Based on this, harvest operations should have little to no impact on these bird and bat species.

One sensitive area, a mineral lick, was identified during layout and is shown on the FHP map. A 100-meter buffer was applied to this location. If additional sensitive features are encountered during harvest operations, the appropriate buffers will be applied as per OGR **Section 7.7.6**.

3.2 Insect, Disease and Fire

All cutblocks included in this FHP were burned during the Fort McMurray wildfires in May 2016. The area was scouted during layout to assess the level of burn in the general area. Stands that were too burned for salvage were excluded from the laid out cutblocks.

No significant infestations of insect or disease were found in the area during layout.

4.0 Access Management

All access roads, including interblock roads, are shown in Appendix A as well as on the FHP map accompanying this plan. Similarly, crossings are listed in Appendix B and are shown on the FHP map.

Operations in this FHP utilize existing industrial LOCs as discussed in Section 2.5 as well as existing cutlines.

All proposed roads within this FHP will be built to a Class IV standard as per Table 3 of the OGR. Road right of way widths will be minimized as much as possible and will generally be between 7-10 meters. All creek crossings will be constructed using snow fills. These crossings will be notched to allow them to melt back to creek embankments during the spring. At the time of operations, the harvest supervisor may change crossing structures to any acceptable crossing type as per OGR **Section 11.4.1**.

Existing seismic lines used for block access and in-block roads will not be reclaimed and will be left open for trapper access. All other access, not under disposition, will be deactivated using rollback following harvesting and hauling operations. ATV access may be maintained to allow access for pile burning operations the following year.

Any changes to roads or crossings will adhere to the protocol defined in **Section 3.4.9.1** of the Ground Rules.

4.1 Road Disturbance

A list of coniferous and deciduous cutblocks and their estimated road disturbance has been provided in Table 3 and Table 4 below. No roads exceed the 5% disturbance threshold of the harvest area as per OGR **Section 9.0.3**.

Table 3: Road Disturbance within Northland Coniferous Cutblocks

Compartment	Block Number	Source ID	Opening Number	Cutblock Area (ha)	Road Area (ha)	Disturbance (%)
EFM	101C	NB08908432854	4080893285	48.3	1.3	2.6
EFM	102C	NB08908435314	4080893531	398.0	6.3	1.6
EFM	109C	NB08908433694	4080893369	5.3	0.2	4.6
EFM	112C	NB08908424694	4080892469	60.3	1.4	2.2
EFM	196C	NB08908424634	4080892463	26.6	0.5	2.0
Total				**538.5**	**9.7**	**2.6**

Table 4: Road Disturbance within Alberta-Pacific Deciduous Cutblocks

Planning Unit	Block Number	Source ID	Opening Number	Cutblock Area (ha)	Road Area (ha)	Disturbance (%)
090084	101D	FB08908432691	4080893269	23.6	0.6	2.8
090084	102D	FB08908436151	4080893615	405.5	6.6	1.6
090084	109D	FB08908433481	4080893348	83.2	2.1	2.5
090084	112D	FB08908425861	4080892586	166.6	4.1	2.5
Total				**679**	**13.4**	**2.3**

4.3 Protection of Roadside Vegetation

Roadside vegetation includes non-merchantable trees, shrubs, forbs and grasses located adjacent to a Class I, II or III road. During operations, this vegetation will be maintained by avoidance and removing only the merchantable timber, where possible. When these road classes are utilized for decking space of harvested timber to make use of an existing disturbance and reduce the overall disturbance of the harvest operation, roadside vegetation will be difficult to avoid.

5.0 Operational Design and Block Comments

A complete block list separated into coniferous and deciduous cutblocks including volume summaries is provided in Appendix C. It should be noted that these estimates are likely higher than actual volume that can be utilized because of the burn. Planned retention is included in Appendix D and is shown on the FHP map.

Cutblocks were laid out in a manner to achieve several objectives. These include maximizing operational efficiency, incorporating natural topography and forest ecology, reducing forest and land fragmentation, reducing linear disturbance, and mitigating impacts on other resources and values, while trying to salvage as much of the burned timber as possible. Available tools such as LiDAR, Alberta Vegetation Inventory, and various third party datasets, were used to prepare the plan to meet the objectives of the DFMP and OGR in an efficient and cost effective manner.

No significant weed issues were identified in this area at the time of planning. Operations will follow the *Appendix 3 – Directive for weed management* in the OGR.

6.0 Compartment Assessment

A compartment assessment was not required for this plan.

7.0 Ground Rule Deviations

Northlands has one coniferous block, 102C (Opening Number: 4080893531) and Alberta Pacific has two deciduous blocks, 102D (Opening Number: 4080893615) and 112D (Opening Number: 4080892586), that exceed size thresholds. Block 102C is 398 ha, block 102D is 405 ha and block 112D is 166 ha in size. Laid out blocks followed the stand boundaries and included timber that was salvageable after the fire. Retention was planned to minimize distance to cover for wildlife.

8.0 Silviculture

Regeneration stratum by block is provided in Appendix E. An amended silviculture liability letter has been submitted and is pending approval. Additionally, no watercourse crossings will be left in for silviculture.

9.0 Validation by Registered Forest Practitioner

Plan prepared and submitted on behalf of Northland Forest Products Ltd and Alberta Pacific Forest Industries Inc. by:

_____ Date: December 12, 2016

Jordan Dyck, RPFT
Planning Forester
Northland Forest Products

_____ Date: December 12, 2016

Bernie Belland, RPFT
Woodlands Operations Planner
Alberta Pacific Forest Industries

Appendix A: List of Roads

Northland Roads

Block Number	Source ID	Road Name	Compart-ment	Road Class	Clearing Width	Road Surface Width	Season	Road Length (m)
102C	NB08908435314	Skid Trail	EFM	4	7 to 10	5 to 6	Winter	19
112C	NB08908424694	Skid Trail	EFM	4	7 to 10	5 to 6	Winter	20
112C	NB08908424694	Skid Trail	EFM	4	7 to 10	5 to 6	Winter	22
		DLO972098	EFM	4	7 to 10	5 to 6	Winter	1641
		NSB_RD1	EFM	4	7 to 10	5 to 6	Winter	3029
101C	NB08908432854	NSB101C	EFM	4	7 to 10	5 to 6	Winter	83
101C	NB08908432854	NSB101C_A	EFM	4	7 to 10	5 to 6	Winter	1312
101C	NB08908432854	NSB101C_B	EFM	4	7 to 10	5 to 6	Winter	616
101C	NB08908432854	NSB101C_C	EFM	4	7 to 10	5 to 6	Winter	204
102C	NB08908435314	NSB102C	EFM	4	7 to 10	5 to 6	Winter	1259
102C	NB08908435314	NSB102C_A	EFM	4	7 to 10	5 to 6	Winter	3174
102C	NB08908435314	NSB102C_B	EFM	4	7 to 10	5 to 6	Winter	253
102C	NB08908435314	NSB102C_C	EFM	4	7 to 10	5 to 6	Winter	315
102C	NB08908435314	NSB102C_D	EFM	4	7 to 10	5 to 6	Winter	890
102C	NB08908435314	NSB102C_E	EFM	4	7 to 10	5 to 6	Winter	205
102C	NB08908435314	NSB102C_F	EFM	4	7 to 10	5 to 6	Winter	362
102C	NB08908435314	NSB102C_G	EFM	4	7 to 10	5 to 6	Winter	617
102C	NB08908435314	NSB102D_C	EFM	4	7 to 10	5 to 6	Winter	88
109C	NB08908433694	NSB109C	EFM	4	7 to 10	5 to 6	Winter	374
112C	NB08908424694	NSB112C	EFM	4	7 to 10	5 to 6	Winter	1326
112C	NB08908424694	NSB112C_A	EFM	4	7 to 10	5 to 6	Winter	240
112C	NB08908424694	NSB112C_B	EFM	4	7 to 10	5 to 6	Winter	264
112C	NB08908424694	NSB112C_C	EFM	4	7 to 10	5 to 6	Winter	53
102C	NB08908435314	NSB112D_C	EFM	4	7 to 10	5 to 6	Winter	837
102C	NB08908435314	NSB196C	EFM	4	7 to 10	5 to 6	Winter	5875
196C	NB08908424634	NSB196C_A	EFM	4	7 to 10	5 to 6	Winter	336
Total								23416

Alberta Pacific Roads

Block Number	Source ID	Road Name	Planning Unit	Road Class	Clearing Width	Road Surface Width	Season	Road Length (m)
112D	FB08908425861	Skid Trail	090084	4	7 to 10	5 to 6	Winter	14
		LOC801730	090084	4	7 to 10	5 to 6	Winter	1823
		NSB_RD1	090084	4	7 to 10	5 to 6	Winter	869
101D	FB08908432691	NSB101C	090084	4	7 to 10	5 to 6	Winter	511
101D	FB08908432691	NSB101C_A	090084	4	7 to 10	5 to 6	Winter	273
101D	FB08908432691	NSB101C_B	090084	4	7 to 10	5 to 6	Winter	849
101D	FB08908432691	NSB101D	090084	4	7 to 10	5 to 6	Winter	286
109D	FB08908433481	NSB102C	090084	4	7 to 10	5 to 6	Winter	709
102D	FB08908436151	NSB102C_D	090084	4	7 to 10	5 to 6	Winter	955
102D	FB08908436151	NSB102D	090084	4	7 to 10	5 to 6	Winter	3629
102D	FB08908436151	NSB102D_A	090084	4	7 to 10	5 to 6	Winter	2152
102D	FB08908436151	NSB102D_B	090084	4	7 to 10	5 to 6	Winter	2023
102D	FB08908436151	NSB102D_C	090084	4	7 to 10	5 to 6	Winter	412
109D	FB08908433481	NSB109D	090084	4	7 to 10	5 to 6	Winter	787
109D	FB08908433481	NSB109D_A	090084	4	7 to 10	5 to 6	Winter	722
109D	FB08908433481	NSB109D_B	090084	4	7 to 10	5 to 6	Winter	408
109D	FB08908433481	NSB109D_C	090084	4	7 to 10	5 to 6	Winter	160
112D	FB08908425861	NSB112C	090084	4	7 to 10	5 to 6	Winter	904
112D	FB08908425861	NSB112C_C	090084	4	7 to 10	5 to 6	Winter	187
102D	FB08908436151	NSB112D	090084	4	7 to 10	5 to 6	Winter	2375

112D	FB08908425861	NSB112D	090084	4	7 to 10	5 to 6	Winter	1091
112D	FB08908425861	NSB112D_A	090084	4	7 to 10	5 to 6	Winter	1420
112D	FB08908425861	NSB112D_B	090084	4	7 to 10	5 to 6	Winter	837
112D	FB08908425861	NSB112D_C	090084	4	7 to 10	5 to 6	Winter	1203
112D	FB08908425861	NSB112D_D	090084	4	7 to 10	5 to 6	Winter	227
112D	FB08908425861	NSB112D_E	090084	4	7 to 10	5 to 6	Winter	260
112D	FB08908425861	NSB112D_F	090084	4	7 to 10	5 to 6	Winter	239
102D	FB08908436151	NSB196C	090084	4	7 to 10	5 to 6	Winter	1459
112D	FB08908425861	NSB196C	090084	4	7 to 10	5 to 6	Winter	341
Total								27125

Appendix B: Watercourse Crossings

Northland Crossings

Crossing Number	Road Name	Stream Class	Crossing Type	Latitude	Longitude
NSB9	NSB102C_C	Ephemeral	Snow Fill	56.75923778	-111.1835282
NSB11	NSB196C	Ephemeral	Snow Fill	56.74430104	-111.1488678
NSB13	NSB102C	Ephemeral	Snow Fill	56.7639427	-111.1961136
NSB14	NSB102C	Ephemeral	Snow Fill	56.76548878	-111.1913341
NSB15	NSB102C	Ephemeral	Snow Fill	56.76641908	-111.1914019

Alberta Pacific Crossings

Crossing Number	Road Name	Stream Class	Crossing Type	Latitude	Longitude
NSB1	NSB101C	Small Perm	Snow Fill	56.76938637	-111.2584319
NSB8	NSB102D	Ephemeral	Snow Fill	56.76040815	-111.1304689
NSB10	NSB196C	Ephemeral	Snow Fill	56.74399061	-111.1376171
NSB12	NSB112D_A	Ephemeral	Snow Fill	56.74504641	-111.1361142
NSB17	LOC801730	Ephemeral	Snow Fill	56.76177212	-111.2236175

Appendix C: Cutblock Area and Volume Summary

Northland - Coniferous Blocks

License	Block Number	Source ID	Opening Number	MOSA	Status	Area (ha)	Conifer (m3/ha)	Deciduous (m3/ha)	Conifer Volume (m3)	Deciduous Volume (m3)	Total Volume (m3)
CTLA020011	101C	NB08908432854	4080893285	N	Laid Out	48.3	214	54	10337	2608	12945
CTLA020011	102C	NB08908435314	4080893531	N	Laid Out	398.0	185	79	73626	31441	105067
CTLA020011	109C	NB08908433694	4080893369	N	Laid Out	5.3	98	42	521	223	744
CTLA020011	112C	NB08908424694	4080892469	N	Laid Out	60.3	145	22	8745	1327	10072
CTLA020011	196C	NB08908424634	4080892463	N	Laid Out	26.6	182	20	4842	532	5374
Total						**538.5**			**98071**	**36131**	**134202**

Alberta Pacific - Deciduous Blocks

Planning Unit	Block Number	Source ID	Opening Number	MOSA	Status	Area (ha)	Conifer (m3/ha)	Deciduous (m3/ha)	Conifer Volume (m3)	Deciduous Volume (m3)	Total Volume (m3)
089084	101D	FB08908432691	4080893269	N	Laid Out	23.6	0	224	0	5288	5288
089084	102D	FB08908436151	4080893615	N	Laid Out	405.5	31	206	12572	83542	96114
089084	109D	FB08908433481	4080893348	N	Laid Out	83.2	107	228	8898	18960	27859
089084	112D	FB08908425861	4080892586	N	Laid Out	166.6	88	192	14660	31984	46644
Total						**679**			**36129**	**139775**	**175904**

Appendix D: Planned Retention

Northland Retention

Block Number	Source ID	Opening Number	Type	Size (ha)
101C	NB08908432854	4080893285	Island	0.2
101C	NB08908432854	4080893285	Island	0.2
101C	NB08908432854	4080893285	Proximal	0.5
101C	NB08908432854	4080893285	Island	0.1
101C	NB08908432854	4080893285	Proximal	2.6
101C	NB08908432854	4080893285	Proximal	5.5
101C	NB08908432854	4080893285	Proximal	1.9
101C	NB08908432854	4080893285	Proximal	2.3
102C	NB08908435314	4080893531	Island	0.8
102C	NB08908435314	4080893531	Island	3.7
102C	NB08908435314	4080893531	Island	4.7
102C	NB08908435314	4080893531	Proximal	1.1
102C	NB08908435314	4080893531	Proximal	1.1
102C	NB08908435314	4080893531	Island	0.3
102C	NB08908435314	4080893531	Island	0.6
102C	NB08908435314	4080893531	Island	0.5
102C	NB08908435314	4080893531	Island	3.9
102C	NB08908435314	4080893531	Island	1.2
102C	NB08908435314	4080893531	Island	2.4
102C	NB08908435314	4080893531	Island	1.7
102C	NB08908435314	4080893531	Island	1.5
102C	NB08908435314	4080893531	Island	4.9
102C	NB08908435314	4080893531	Island	2.3
102C	NB08908435314	4080893531	Proximal	1.9
102C	NB08908435314	4080893531	Proximal	0.2
112C	NB08908424694	4080892469	Island	0.5
112C	NB08908424694	4080892469	Island	0.9
112C	NB08908424694	4080892469	Island	0.1
112C	NB08908424694	4080892469	Proximal	0.9
196C	NB08908424634	4080892463	Island	0.5
Total				49.1

Alberta Pacific Retention

Block Number	Source ID	Opening Number	Type	Size (ha)
101D	FB08908432691	4080893269	Island	0.2
101D	FB08908432691	4080893269	Island	0.4
101D	FB08908432691	4080893269	Proximal	1.3
101D	FB08908432691	4080893269	Proximal	0.4
101D	FB08908432691	4080893269	Proximal	1.1
102D	FB08908436151	4080893615	Island	5.7

102D	FB08908436151	4080893615	Island	2.9
102D	FB08908436151	4080893615	Island	3.1
102D	FB08908436151	4080893615	Island	2.9
102D	FB08908436151	4080893615	Island	1.3
102D	FB08908436151	4080893615	Island	3.3
102D	FB08908436151	4080893615	Island	1.4
102D	FB08908436151	4080893615	Island	2.0
102D	FB08908436151	4080893615	Peninsular	1.7
102D	FB08908436151	4080893615	Island	1.1
102D	FB08908436151	4080893615	Island	1.1
102D	FB08908436151	4080893615	Island	1.3
102D	FB08908436151	4080893615	Island	1.4
109D	FB08908433481	4080893348	Island	0.4
109D	FB08908433481	4080893348	Island	0.3
109D	FB08908433481	4080893348	Island	0.9
109D	FB08908433481	4080893348	Island	0.1
109D	FB08908433481	4080893348	Island	0.4
109D	FB08908433481	4080893348	Island	0.4
109D	FB08908433481	4080893348	Peninsular	1.2
109D	FB08908433481	4080893348	Proximal	1.6
109D	FB08908433481	4080893348	Island	0.4
109D	FB08908433481	4080893348	Island	0.4
109D	FB08908433481	4080893348	Peninsular	0.8
109D	FB08908433481	4080893348	Proximal	1.7
112D	FB08908425861	4080892586	Island	1.0
112D	FB08908425861	4080892586	Island	0.6
112D	FB08908425861	4080892586	Island	1.7
112D	FB08908425861	4080892586	Island	2.1
112D	FB08908425861	4080892586	Peninsular	1.8
112D	FB08908425861	4080892586	Peninsular	1.7
112D	FB08908425861	4080892586	Island	1.7
112D	FB08908425861	4080892586	Island	1.3
112D	FB08908425861	4080892586	Island	0.6
112D	FB08908425861	4080892586	Proximal	1.5
Total				54.9

Appendix E: Regeneration Stratum

Northland - Coniferous Blocks

Block Number	Source ID	Opening Number	Area (ha)	Std_Mod	Open_ Desig	Species_Gr	Silv_Harv
101C	NB08908432854	4080893285	48.3	C	SM	PN	CC
102C	NB08908435314	4080893531	398.0	C	SM	PN	CC
109C	NB08908433694	4080893369	5.3	C	SM	PN	CC
112C	NB08908424694	4080892469	60.3	C	SM	PN	CC
196C	NB08908424634	4080892463	26.6	C	SM	PN	CC

Alberta Pacific - Deciduous Blocks

Block Number	Source ID	Opening Number	Area (ha)	Std_Mod	Open_ Desig	Species_Gr	Silv_Harv
101D	FB08908432691	4080893269	23.6	D	SM	DE	CC
102D	FB08908436151	4080893615	405.5	D	SM	DE	CC
109D	FB08908433481	4080893348	83.2	DC	SM	MX	CC
112D	FB08908425861	4080892586	166.6	DC	SM	MX	CC