



Supply Base Report: AMCEL – Amapá Florestal e Celulose S.A.

Choose audit type here

www.sbp-cert.org



The promise of good biomass



Completed in accordance with the Supply Base Report Template Version 1.3

For further information on the SBP Framework and to view the full set of documentation see www.sbp-cert.org

Document history

Version 1.0: published 26 March 2015

Version 1.1 published 22 February 2016

Version 1.2 published 23 June 2016

Version 1.3 published 14 January 2019; re-published 3 April 2020

© Copyright Sustainable Biomass Program Limited 2020

Contents

1	Overview	1
2	Description of the Supply Base	2
2.1	General description	2
2.2	Actions taken to promote certification amongst feedstock supplier	2
2.3	Final harvest sampling programme	5
2.4	Flow diagram of feedstock inputs showing feedstock type [optional]	5
2.5	Quantification of the Supply Base	5
3	Requirement for a Supply Base Evaluation	6
4	Supply Base Evaluation	6
4.1	Scope	7
4.2	Justification.....	7
4.3	Results of Risk Assessment.....	7
4.4	Results of Supplier Verification Programme	7
4.5	Conclusion.....	7
5	Supply Base Evaluation Process	8
6	Stakeholder Consultation	9
6.1	Response to stakeholder comments	9
7	Overview of Initial Assessment of Risk	9
8	Supplier Verification Programme	11
8.1	Description of the Supplier Verification Programme	11
8.2	Site visits	11
8.3	Conclusions from the Supplier Verification Programme.....	11
9	Mitigation Measures	11
9.1	Mitigation measures	12
9.2	Monitoring and outcomes	12
10	Detailed Findings for Indicators	12
11	Review of Report	14
11.1	Peer review.....	14
11.2	Public or additional reviews	14
12	Approval of Report	14
13	Updates	16
13.1	Significant changes in the Supply Base	16
13.2	Effectiveness of previous mitigation measures	16
13.3	New risk ratings and mitigation measures.....	16

13.4 Actual figures for feedstock over the previous 12 months 16

13.5 Projected figures for feedstock over the next 12 months 16

1 Overview

On the first page include the following information:

Producer name: AMCEL – Amapá Florestal e Celulose S.A

Producer location: Av. Cláudio Lúcio Monteiro s/nº, CEP: 68.9260-00, Santana-AP

Geographic position: $-0^{\circ}03'22,649''$: $-51^{\circ}10'09,853''$

Primary contact: Carlos Alberto Almeida Gonçalves, Alameda Oiapoque nº03 Quadra U, Conjunto Cabralzinho CEP 68906-848, (96) 99112-6781, carlos.goncalves@amcel.com.br

Company website: www.amcel.com.br

Date report finalised: [Date of approval by senior management; format DD/MMM/YYYY]

Close of last CB audit: [Date and location of the closing meeting CB]

Name of CB: SCS Global Service

Translations from English: Yes

SBP Standard(s) used: Standard 2 Versão 1.0, Standard 4 Versão 1.0, Standard 5 Versão 1.0

Weblink to Standard(s) used: <https://sbp-cert.org/documents/standards-documents/standards>

SBP Endorsed Regional Risk Assessment: not applicable

Weblink to SBE on Company website: not applicable

Indicate how the current evaluation fits within the cycle of Supply Base Evaluations				
Main (Initial) Evaluation	First Surveillance	Second Surveillance	Third Surveillance	Fourth Surveillance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2 Description of the Supply Base

2.1 General description

AMCEL – Amapá Floresta e Celulose S.A. (“AMCEL” or “Company”) is a woodchip producer in Amapá state, Brazil. AMCEL produces and exports woodchip for pulp production (Cellulose woodchip) and woodchip for energy generation (Biomass woodchip).

100% of feedstock comes from AMCEL’s own forest which is certified by FSC-FM and Cerflor (PEFC). Feedstock is composed with two kind of species; Eucalyptus spp. and Acacia mangium.

Forestry activities performed are differentiated according to the product group:

Feedstock for Cellulose woodchip (products or residues) - The activities performed with intensive management such as seedling production, mowing, subsoiling, harrowing, planting, fertilizing and ant control.

Feedstock for Biomass woodchip (primary feedstock) - The activities performed with extensive management such as coppice regeneration and ant control.

These plantations for Biomass woodchip are formed by natural conduction of regrowth of various Eucalyptus hybrids. The only management operations carried out are the monitoring and ant control and fire control. Acacia mangium plants are the result of natural dispersal germination of pre-existing mother plants in the area.

The harvesting ages of these mixed plantations range, on average, from 6 to 10 years old. The rotation considers the quality of the wood product, considering the wood density over the years. Harvesting (mechanized) begins by planning the cutting activities by storing log products (piles) for disposal into to the infield chipper, and then the product is transported (Chips for Biomass) to the chip yard located in the manufacturing unit. In cases of the impediment of processing in the field, the wood (log) is taken to the Mill for chipping.

Acacia mangium was introduced in Amapá State in 1988 by the company CFA - Companhia Ferro Ligas do Amapá. At the time CFA and AMCEL belonged to the CAEMI Group. Around 10 experimental Acacia poles were installed in the AMCEL area. These plantations were distributed in different SITES, aiming to study the adaptation and productivity, in about 95,000 ha with AMCEL cultivation of tropical pine.

The objective of the CFA Project was to have wood supplied to produce charcoal to be used as a reducer for the production of metal alloys.

The seeds introduced come from Australia (Kuranda and others), Papua New Guinea, Malaysia and Indonesia. The natural occurrence and source of the provenances come from altitudes of 30 to 300 m above sea level.

As the CFA Company Project did not consolidate, Acacia's experimental plantations remained in the AMCEL area until ages 12 to 21. While the experimental Acacia plantations were surrounded by commercial Pinus Caribaea plantations the seed dispersal was very low or practically zero. However, after the beginning of the replacement of Pinus plantations by Eucalyptus, from 1997 onwards, all areas harvested and with prepared soil near Acacia plantations began to receive dispersal of these seeds (mainly through birds and wind).

Acacia plants can now be found in almost the entire AMCEL planting block (95,000 ha), with greater intensity in the vicinity of the old experiments established in the partnership between CFA x AMCEL.

Currently the percentages of mixture between Eucalyptus and Acacia can range from: 20% Eucalyptus: 80% Acacia (areas with regrowth of older Eucalyptus clones less adapted to the region's edaphoclimatic conditions) to 60% Eucalyptus: 40% Acacia (areas with regrowth of Eucalyptus clones better adapted to the region and with less Acacia seed source).

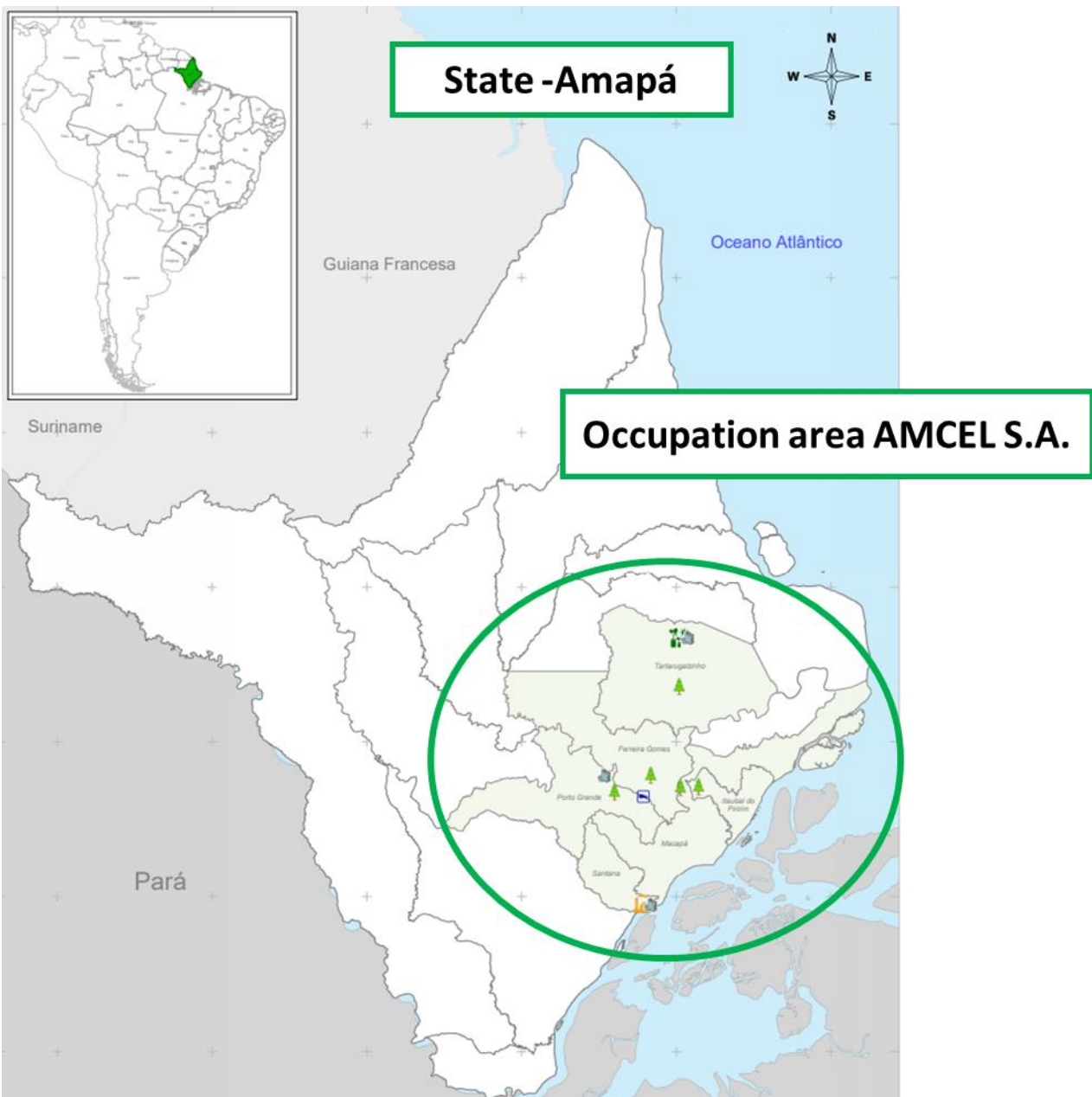
In order to reach this management model it is usually necessary to have areas of Eucalyptus plantation in 2nd rotation or more. Usually, in the first rotation the plantations received weed / invasive management only until the 2nd or 3rd

year of age. After this age, Acacia plants established from natural seed dispersal from neighboring areas. These plants developed, fruited and increased the Acacia seed bank in the locality.

In the second rotation, the plantations received weed / invasive management only until the 2nd year of age, which contributed to increase the Acacia seed bank. After harvesting this second planting and naturally conducting Eucalyptus regrowth, the new Acacia plants start a competition with Eucalyptus plants. In this way a system of intra and interspecific competition (Eucalyptus x Acacia) is established where the superior individuals gradually suppress the inferior ones. From the 6th year onwards, a fairly closed settlement with no understory and an abundant layer of litter is noted.

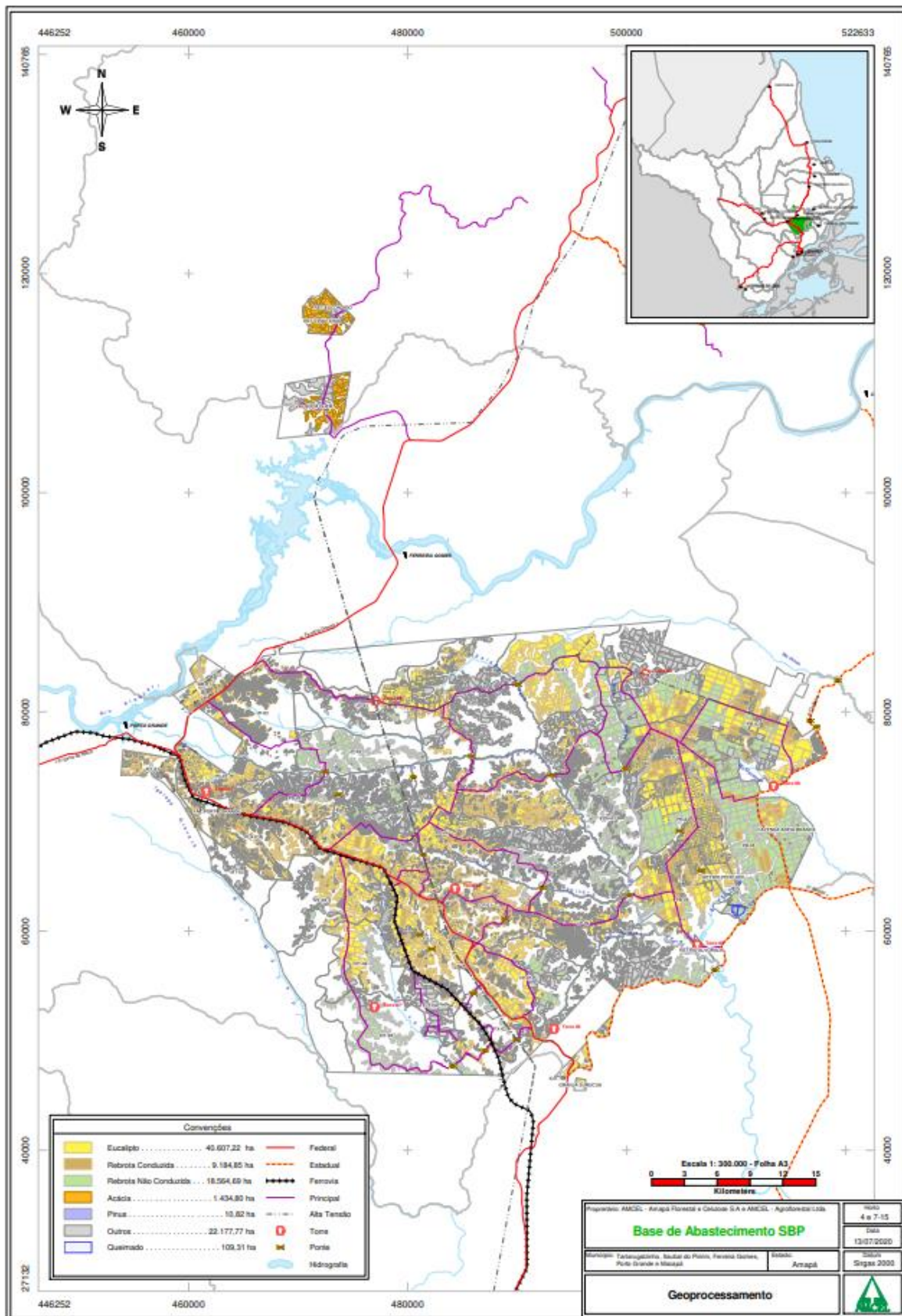
AMCEL's forest management objectives are implemented to ensure the responsibility and competitiveness of the enterprise, ensuring compliance with projected demands, forest productivity, social improvement, return on investment and environmental quality of the company's areas of activity along the time.

The company meets SBP standard requirements, which can be identified in internal documents, procedures and standards, such as the identification of IUCN CITES and Species and defined protected areas. This information is contained in company Integrated Forest Management Plan in compliance with FSC-STD-BRA-01-2014 V1-0 EN



AMCEL S.A.'s areas of operation are duly registered in real estate registry office in the state of Amapá, covering the

municipalities of Santana, Macapá, Porto Grande, Ferreira Gomes, Tartarugalzinho and Itaubal do Pírim.



The raw material (100%) comes from its own areas. AMCEL currently has FSC®-C023383 and Cerflor 100% certified Forest Management area that makes up a total of 166,696.06 ha consisting of LTA, APP, Infrastructure and production area. Specifically, the productive area comprises a total of 81,780.18 ha.

2.2 Actions taken to promote certification amongst feedstock supplier

Not applicable - Approved forest management scheme.

2.3 Final harvest sampling programme

Not applicable, because the forest cycle is from 6 (six) to 10 (ten) years (short rotation).

2.4 Flow diagram of feedstock inputs showing feedstock type [optional]

Not applicable

2.5 Quantification of the Supply Base

Supply Base

- a. Total Supply Base area (ha): 166,696.06 ha (100% AMCEL S.A. – Brazil)
- b. Tenure by type (ha): 166.696,06 ha Propriedade privada. Imóveis – Amcel Unificada=152.683,84ha; Retiro Alvorada=179,70; Retiro Peixe Boi=476,01; Granja Surucuá=101,27; Flexal=.140,24; Platon=4.367,28; Porto Grande=207,37; Fazenda Areia Branca=1.793,02; Retiro Vai Quem Quer=2.989,97; Retiro Retorno=449,35; Retiro Tira Teima=779,60; Retiro Escondido=528,77.
- c. Forest by type (ha): 166,696.06 ha Eucalyptus, Acacia and, Pinus spp forest
- d. Forest by management type (ha): 166,696.06 ha Plantation
- e. Certified forest by scheme (ha): AMCEL S.A. 166,696.06 ha (FSC® -C023383 and CERFLOR 100% certified)

Feedstock

- f. Total volume of Feedstock: 190.640,72tonnes
- g. Volume of primary feedstock: 140.122,18 tonnes
- h. List percentage of primary feedstock (g), by the following categories. 100% Certified
- i. List all species in primary feedstock, including scientific name: Acacia spp., Eucalyptus brassiana, Eucalyptus camaldulensis, Eucalyptus pellita, Eucalyptus tereticornis, Eucalyptus urophylla x E. grandis hybrid, Eucalyptus urophylla, Pinus spp.
- j. Volume of primary feedstock from primary forest: Not applicable
- k. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes: Not applicable
- l. Volume of secondary feedstock: 50.528,54 tonnes
- m. Volume of tertiary feedstock: Not applicable

3 Requirement for a Supply Base Evaluation

SBE completed	SBE not completed
<input type="checkbox"/>	<input checked="" type="checkbox"/>

100% of the supply base is certified by an SBP-approved Forest Management Scheme.

4 Supply Base Evaluation

4.1 Scope

Not applicable

4.2 Justification

Not applicable

4.3 Results of Risk Assessment

Not applicable

4.4 Results of Supplier Verification Programme

Not applicable

4.5 Conclusion

Not applicable

5 Supply Base Evaluation Process

Not applicable

6 Stakeholder Consultation

Not applicable

6.1 Response to stakeholder comments

Not applicable

7 Overview of Initial Assessment of Risk

Not applicable

8 Supplier Verification Programme

8.1 Description of the Supplier Verification Programme

Not applicable

8.2 Site visits

Not applicable

8.3 Conclusions from the Supplier Verification Programme

Not applicable

9 Mitigation Measures

9.1 Mitigation measures

Not applicable

9.2 Monitoring and outcomes

Not applicable

10 Detailed Findings for Indicators

Not applicable

11 Review of Report

11.1 Peer review

Reviewer: Carlos Alberto Almeida Gonçalves - Bachelor of Business Administration in Marketing.

Graduated from Amapá College, FAMAP, Macapá, Brazil, in 2005. Specialization in Environmental Management and Law by the Brazilian Institute of Postgraduate and Extension, IBPEX, Brazil, Master in Environmental Management and Auditing by the Ibero American University Foundation, FUNIBER, Florianópolis, Brazil and EMS Auditor / LEAD Auditor ISO 14001: 2004 Bureau Veritas, BVQI, Brazil. Operates in the areas of Environmental Management ISO 14001 (Implementation and Maintenance); FSC and CERFLOR / PEFC Forest Certification (Forest Stewardship and Chain of Custody); Environmental audit; Environmental licensing; Industrial waste management; Environmental Monitoring and Safety and Occupational Medicine, teaches courses and training. Worked as University Professor of the Faculty of Macapá - FAMA in the subjects of Certification and Environmental Auditing and Occupational Safety

11.2 Public or additional reviews

The report is available on the company AMCEL S.A website for public disclosure - <http://www.amcel.com.br/>

Producer name: AMCEL – Amapá Florestal e Celulose S.A.




Producer location: Av. Cláudio Lúcio Monteiro s/nº, CEP: 68.9260-00, Santana-AP

Geographic position: $-50^{\circ}03'28''$: $-51^{\circ}10'14''$

Primary contact: [Carlos Alberto Almeida Gonçalves, Alameda Oiapoque nº03 Quadra U, Conjunto Cabralzinho CEP 68906-848, (96) 99112-6781, carlos.goncalves@amcel.com.br

Company website: www.amcel.com.br

12 Approval of Report

Approval of Supply Base Report by senior management			
Report Prepared by:	 Aliny Cristina Fonseca da Silva	Senior Certification Analyst	22/07/2020
	Name	Title	Date
The undersigned persons confirm that I/we are members of the organisation's senior management and do hereby affirm that the contents of this evaluation report were duly acknowledged by senior management as being accurate prior to approval and finalisation of the report.			
Report approved by:	 Paulo Jorge Henriques Antunes	General Manager, Finance, Accounting, Supplies, Planning and IT	22/07/2020
	Name	Title	Date
Report approved by:	 Yuji Naruse	Director	22/07/2020
	Name	Title	Date
Report approved by:	[name]	[title]	[date]
	Name	Title	Date

13 Updates

Not applicable

13.1 Significant changes in the Supply Base

Not applicable

13.2 Effectiveness of previous mitigation measures

Not applicable

13.3 New risk ratings and mitigation measures

Not applicable

13.4 Actual figures for feedstock over the previous 12 months

96.095,70 GMT

13.5 Projected figures for feedstock over the next 12 months

Sales plan 2021 – 90.000 GMT