

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER N-20-108

Relating to CARB approval for an Exemption from Third-Party Certification for Composite Wood Product Manufacturers that use Ultra-low-emitting Formaldehyde Resins under section 93120.3, title 17, California Code of Regulations

Syktyvkar Plywood Mill Ltd.

WHEREAS, the California Air Resources Board (CARB) has adopted the “Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products” (ATCM; title 17, California Code of Regulations, sections 93120-93120.12), which establishes formaldehyde emission standards for composite products;

WHEREAS, section 93120.1(a)(42) of the ATCM defines “ultra-low-emitting formaldehyde” (ULEF) based resins to mean resins formulated such that average formaldehyde emissions are consistently below the Phase 2 emission standards in section 93120.2, for making hardwood plywood (HWPW), particleboard (PB), medium density fiberboard (MDF), or thin medium density fiberboard (tMDF);

WHEREAS, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to apply for written approval from the Executive Officer for an exemption from the requirements of section 93120.3(b) of the ATCM;

WHEREAS, section 93120.3(d) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use ULEF-based resins to submit an application for an exemption from the requirements of section 93120.3(b) of the ATCM to the Executive Officer, which includes: (A) a statement indicating which product types will be manufactured using ULEF-based resins for sale in California; (B) the chemical formulation of the candidate ULEF-based resins, including base resins, scavenger resins and additives, catalysts, and other additives as used in manufacturing; (C) the name of their CARB-approved third-party certifier (TPC); and (D) data on the emissions performance of the candidate ULEF-based resins;

WHEREAS, the data on emissions performance of the candidate ULEF-based resin required in section 93120.3(d) of the ATCM must be obtained by working with a CARB-approved TPC, and must include six months of routine quality control testing data, the correlation of the routine quality control testing data to primary or secondary testing data, and the results of two primary or secondary method tests, as required in Appendix 2 of section 93120.12 of the ATCM;

WHEREAS, section 93120.3(d)(2) of the ATCM requires that 90 percent of the six months of routine quality control testing data and the results of two primary or secondary method tests must be shown to be no higher than 0.04 parts per million (ppm), and that all data must be shown to be no higher than 0.05 ppm for HWPW and 0.06 ppm for PB, MDF, and tMDF;

WHEREAS, section 93120.3(d)(5) of the ATCM provides that the Executive Officer shall approve the application and issue an Executive Order if the evidence submitted by the applicant is sufficient to demonstrate that the applicant has met the requirements specified in sections 93120.3(d)(1) and 93120.3(d)(2) of the ATCM;

WHEREAS, Syktyvkar Plywood Mill Ltd. (Syktyvkar Plywood or the applicant) submitted an application that we received on December 12, 2011;

WHEREAS, the original application from Syktyvkar Plywood specified the range in product manufacturing parameters, applicable post-press product treatments, base resin trade name(s) and base resin manufacturer(s)/supplier(s), and other ingredients added to the base resin by the applicant to manufacture ULEF hardwood plywood-veneer core (HWPW-VC) products;

WHEREAS, CARB was provided base resin/adhesive information specifying the base resin polymer type and minimum and maximum values of all major and any minor ingredients in the base resin on a percent weight of solids basis;

WHEREAS, the base resins/adhesive supplier, commercial name, and resin type are set forth in Confidential Attachment A;

WHEREAS, section 93120.3(d) of the ATCM allows ULEF product manufacturers to apply for re-approval by CARB by submitting an updated application;

WHEREAS, Syktyvkar Plywood submitted the original and the updated applications for approval to CARB as follows:

Executive Order #	Received Date	Signed Date	Actions
N-11-108	12/12/2011	12/20/2011	Original
N-14-108	01/13/2014	01/31/2014	Renewal
N-16-108	01/15/2016	04/16/2016	Renewal
N-18-108	02/08/2018	04/20/2018	Renewal

WHEREAS, Syktyvkar Plywood submitted an updated application for re-approval to CARB on November 12, 2019;

WHEREAS, the updated application for renewal from Syktyvkar Plywood was deemed complete on February 13, 2020;

WHEREAS, the Executive Officer finds that the completed, updated application demonstrated the ULEF manufacturer's ability to continue to comply with section 93120.3(d); and

WHEREAS, the Executive Officer approved Syktyvkar Plywood's request for re-approval, and it is appropriate that Executive Order N-18-108 be superseded by this Executive Order N-20-108.

NOW, THEREFORE, IT IS ORDERED that Syktyvkar Plywood is hereby approved as a ULEF manufacturer of HWPW-VC that is exempt from the requirements of section 93120.3(b) and Appendix 2 of section 93120.12 of the ATCM, provided that the following terms and conditions are met for products sold, supplied, offered for sale, or manufactured for sale in California:

1. Syktyvkar Plywood must use the commercial resins listed and suppliers listed in Section A of Confidential Attachment A of this Executive Order for the manufacture of ULEF HWPW-VC products.
2. As specified in Section B of Confidential Attachment A, Syktyvkar Plywood is legally responsible for ensuring that the base resin specifications are within the ranges specified in the original application and any subsequent amendments of this Executive Order.
3. The application rate of the base resins used for the manufacture of ULEF composite wood products by Syktyvkar Plywood must be within the ranges specified in Section C of Confidential Attachment A of this Executive Order.
4. Other chemical components of the base resins (such as sizing wax and release wax) used for the manufacture of ULEF HWPW-VC products by Syktyvkar Plywood must be within the ranges specified in Section D of Confidential Attachment A of this Executive Order.
5. The allowable operating parameters for press temperature and press time for the base resins used to manufacture the ULEF HWPW-VC products by Syktyvkar Plywood must be within the ranges specified in Section E of Confidential Attachment A of this Executive Order.
6. Only the composite wood products with the product names listed in Section F of Confidential Attachment A of this Executive Order are authorized under this Executive Order.

BE IT FURTHER ORDERED that this Executive Order N-20-108 supersedes Executive Order N-18-108, which was signed on April 20, 2018.

BE IT FURTHER ORDERED that Syktyvkar Plywood may change the resin system supplier listed in Section A of Confidential Attachment A of this Executive Order if the new resin supplier supplies the same resin type listed in Confidential Attachment A of this Executive Order, at least two primary or secondary method tests are performed on random samples selected by their CARB-approved TPC, and the Chief of the Risk Reduction Branch within the Transportation and Toxics Division is notified before Syktyvkar Plywood uses the resin for production.

BE IT FURTHER ORDERED that Syktyvkar Plywood must conduct confirmatory testing for a new resin supplier by demonstrating that the results of two primary or secondary method tests for the new resin system supplier are no higher than 0.04 ppm for the ULEF products authorized under this Executive Order.

BE IT FURTHER ORDERED that the Executive Officer may review and, for good cause, modify or revoke this Executive Order as provided in section 93120.3(d)(5) of the ATCM. The Executive Officer shall not modify or revoke this Executive Order without affording the applicant the opportunity for a hearing in accordance with the procedures specified in title 17, California Code of Regulations, section 60055.1 et seq.

BE IT FURTHER ORDERED that this Executive Order shall have a duration of two years from the date this Executive Order is signed; the applicant may apply for re-approval as provided in section 93120.3(d)(5) of the ATCM.

BE IT FURTHER ORDERED that the applicant must maintain records in electronic or hard copy form for two years, for review by CARB upon request, as specified in section 93120.3(g) of the ATCM.

BE IT FURTHER ORDERED that the applicant must notify the Executive Officer in writing within 30 days if there is any change in their product manufacturing parameters or base resin manufacturer(s) or supplier(s) that does not comply with any of the requirements, terms or conditions specified in the ATCM or this Executive Order.

Executed at Sacramento, California this 22nd day of April, 2020.



Richard Boyd, Chief
Risk Reduction Branch
Transportation and Toxics Division

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Attachment A
Formulation Data and Operating Parameters
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Syktvykar Plywood Mill Ltd.

Section A.

Resin Supplier 1:

- Address:

Syktvykar Plywood Mill Ltd.

Uchtinskoe Avenue 66, Syktvykar
Republic of Komi 167026
Russia

Commercial Resin Name 1:

- Resin Type:

PFP 3013

Phenol formaldehyde (PF)

Resin Supplier 2:

- Address:

LLC "Metadynea"

27 Electrozavodskaya Street, Building 2
Moscow, 107023 Russia

Commercial Resin Name 2:

- Resin Type:

Primere 14F201

Urea formaldehyde (UF)

Section B.

Base Resin Chemical Formulation (Percent by Weight):

Syktvykar Plywood Mill Ltd. remains legally responsible under this Executive Order for ensuring that the base resin specifications are within the ranges specified in the original application and any subsequent amendments to this Executive Order.

Section C.

Base Resin Application Rate (pounds per 1,000 square feet):

- HWPW-VC (min/max): 26.62 to 28.67

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Syktyvkar Plywood Mill Ltd.

Section D.

Other Ingredients Added by the Composite Wood Product Manufacturer (Amount Added per Pound of Base Resin on a 100 Percent Solids Basis):

Ingredients	CAS Number	Minimum	Maximum
Flour	N/A	1	2.8
Chalk	72608-12-9	3	3.2
Ammonium Sulfate	7783-20-2	0.4	0.5
Lignosulphonate	N/A	18.5	19.6

Section E.

Allowable Operating Parameters:

- Press Temperature (°C):
 - HWPW-VC (min/max): 115 to 125
- Press Time (minutes):
 - HWPW-VC (min/max): 3.33 to 15.16

Section F.

Product Names & Types Authorized in Executive Order N-20-108:

- Birch Plywood FSF, Birch Plywood UF, SyPly – HWPW-VC (thickness range = 0.3 to 3.5 inches)