State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER N-19-366A

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

Murashinsky Plywood Plant LLC

WHEREAS, the California Air Resources Board (CARB) has adopted the Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products (the ATCM; title 17, California Code of Regulations sections 93120-93120.12), which establishes formaldehyde emission standards for composite wood 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, scavenger 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, Murashinsky Plywood Plant LLC (Murashinsky Plywood or the applicant) submitted an original application that was received on February 26, 2019;

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

Executive Order #	Received Date	Signed Date	Actions
N-19-366	02/26/2019	04/02/2019	Original

WHEREAS, Murashinsky Plywood submitted a request for approval to CARB to change the thickness range of their product on August 9, 2019;

WHEREAS, the request for approval to change the thickness range from Murashinsky Plywood was deemed complete on August 9, 2019;

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 Murashinsky Plywood's request to change the thickness range on their product, and it is appropriate that Executive Order N-19-366 be superseded by this Executive Order N-19-366A.

NOW, THEREFORE, IT IS ORDERED that Murashinsky 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. Murashinsky 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, Murashinsky 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 Murashinsky 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 Murashinsky 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 Murashinsky 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-19-366A supersedes Executive Order N-19-366, which was signed on April 2, 2019.

BE IT FURTHER ORDERED that Murashinsky 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 Murashinsky Plywood uses the resin for production.

BE IT FURTHER ORDERED that Murashinsky 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 the 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 the expiration date of this Executive Order is two years from the date of issuance of Executive Order N-19-366 (i.e., April 2, 2019); 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 12th day of September, 2019.

Richard Boyd

Richard Boyd, Chief
Risk Reduction Branch
Transportation and Toxics Division

Confidential

Attachment A
Formulation Data and Operating Parameters
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Murashinsky Plywood Plant LLC

Section A.

Resin Supplier 1:	**«Metadynea» LLC**
• Address:	Electrozavodskaya Street, 27, Building 2 Moscow City, 107023, Russia
Commercial Resin Name 1:	**Primere 14J620**
• Resin Type:	Phenol Formaldehyde (PF)
Resin Supplier 2:	**Research & Development Company "Astat" Ltd.**
• Address:	Lenina Street, 121, Office 310 Dzerzhinsk City, Nizhny Novgorod Region 606016, Russia
Commercial Resin Name 2:	**SFG-3014 (GOST 2907-2016)**
• Resin Type:	Phenol Formaldehyde (PF)
Resin Supplier 3:	**«Hexion-Shchekinoazot» LLC**
• Address:	7 Simpheropolskaya Street, Office 411 Pervomaiskiy Worker Settlement Tula Region Shchekino District, 301212, Russia
Commercial Resin Name 3:	**Bakelite PF101**
• Resin Type:	Phenol Formaldehyde (PF)

Section B.

Base Resin Chemical Formulation (Percent by Weight):
Murashinsky Plywood Plant LLC 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.

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Murashinsky Plywood Plant LLC

Section C.

Base Resin Application Rate (Pounds per 1,000 Square Feet):

- HWPW-VC (min/max): 11.15 to 12.67

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
Chalk	N/A	0.02	0.09
Flour	N/A	0.02	0.09
Water	7732-18-5	0	0.20

Section E.

Allowable Operating Parameters:

- Press Temperature (°C):
  - HWPW-VC (min/max): 125 to 135
- Press Time (Minutes):
  - HWPW-VC (min/max): 5 to 36

Section F.

Product Names & Types Authorized in Executive Order N-19-366A:

- SFG-3014; Primere 14J620; PF 101 HWPW-VC
  (thickness range = 0.16 to 1.575 inches)