

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER N-21-021

Relating to CARB Approval to use No-added Formaldehyde Resins by  
Composite Wood Product Manufacturers under  
section 93120.3, title 17, California Code of Regulations

**Georgia Pacific Panel Products, LLC**

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 wood products;

WHEREAS, section 93120.1(a)(29) of the ATCM defines “no-added formaldehyde” (NAF) based resins to mean resins formulated with NAF as part of the resin cross-linking structure for making hardwood plywood (HWPW), particleboard (PB), medium density fiberboard (MDF), or thin medium density fiberboard (tMDF) including, but not limited to resins made from soy, polyvinyl acetate, or methylene diisocyanate;

WHEREAS, section 93120.3(c) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use NAF-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(c) of the ATCM allows manufacturers of HWPW, PB, MDF, and tMDF who use NAF-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 NAF-based resins for sale in California; (B) the chemical formulation of the candidate NAF-based resins, including base resins, catalysts, and other additives used in manufacturing; (C) the name of their CARB-approved third-party certifier (TPC); and (D) data on emissions performance of the candidate NAF-based resins;

WHEREAS, the data on emissions performance of the candidate NAF-based resin required in section 93120.3(c) of the ATCM must be obtained by working with a CARB-approved TPC, and must include three 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 one primary or secondary method test, as required in Appendix 2 of section 93120.12 of the ATCM;

WHEREAS, section 93120.3(c)(1) of the ATCM requires that 90 percent of the three months of routine quality control testing data and the result of one primary or secondary method test 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(c)(4) 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 section 93120.3(c)(1) of the ATCM;

WHEREAS, Temple Inland Mt. Jewett MDF (TI Mt. Jewett or the applicant) submitted an application that we received on May 4, 2009;

WHEREAS, the original application from TI Mt. Jewett 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 NAF MDF and tMDF 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(c) of the ATCM allows NAF product manufacturers to apply for re-approval to CARB by submitting an updated application;

WHEREAS, TI. Mt. Jewett submitted the original and the updated applications for approval to CARB as follows:

<b>Executive Order #</b>	<b>Received Date</b>	<b>Signed Date</b>	<b>Action</b>
N-09-021	05/04/2009	06/11/2009	Original
N-09-021A	04/29/2010	05/27/2010	Amendment: to add additional products
N-11-021	04/21/2011	05/11/2011	Renewal and amendment to add an additional resin system
N-13-021	06/06/2013	07/19/2013	Renewal
N-13-021A	12/02/2014	01/28/2015	Amendment to change the company name from "Temple Inland Mt. Jewett MDF" to "Georgia Pacific Panel

<b>Executive Order #</b>	<b>Received Date</b>	<b>Signed Date</b>	<b>Action</b>
			Products, LLC” (Georgia Pacific or the applicant)
N-15-021	06/05/2015	07/20/2015	Renewal
N-15-021A	01/06/2017	01/30/2017	Amendment to add an additional resin system
N-17-021	07/10/2017	09/22/2017	Renewal
N-17-021A	10/15/2018	11/06/2018	Amendment to add two additional resin systems
N-19-021	07/23/2019	09/24/2019	Renewal
N-19-021A	05/01/2020	05/04/2020	Amendment to change the resin system
N-19-021B	02/19/2021	04/06/2021	Amendment to add an additional resin system

WHEREAS, Georgia Pacific submitted an updated application for re-approval to CARB on May 5, 2021;

WHEREAS, the updated application from Georgia Pacific was deemed complete on May 6, 2021;

WHEREAS, the Executive Officer finds that the completed, updated application demonstrated the NAF manufacturer’s ability to continue to comply with section 93120.3(c) of the ATCM; and

WHEREAS, the Executive Officer approved Georgia Pacific’s request for re-approval and it is appropriate that Executive Order N-19-021B be superseded by Executive Order N-21-021.

NOW, THEREFORE, IT IS ORDERED that Georgia Pacific is hereby approved as a NAF manufacturer of MDF and tMDF 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. Georgia Pacific must use the commercial resin and supplier listed in Section A of Confidential Attachment A of this Executive Order for the manufacture of MDF and tMDF products.

2. As specified in Section B of Confidential Attachment A, Georgia Pacific 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 NAF MDF and tMDF composite wood products by Georgia Pacific 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 NAF composite wood products by Georgia Pacific 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 NAF MDF and tMDF composite wood products by Georgia Pacific 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-21-021 supersedes Executive Order N-19-021B, which was issued on April 6, 2021.

BE IT FURTHER ORDERED that Georgia Pacific 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 constituent listed in Confidential Attachment A of this Executive Order, at least one primary or secondary method test is 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 Georgia Pacific uses the resin for production.

BE IT FURTHER ORDERED that Georgia Pacific must conduct confirmatory testing for any new resin system by demonstrating that the results of one primary or secondary method test for the new resin system supplier are no higher than 0.04 ppm for the NAF products authorized under this Executive Order.

BE IT FURTHER ORDERED that this Executive Order shall have a duration of two years, and the applicant may apply for re-approval as provided in section 93120.3(c)(4) of the ATCM.

BE IT FURTHER ORDERED that section 93120.3(c)(6) of the ATCM, as applicable, specifies that if the applicant decides to change to a formaldehyde-based resin system, the applicant must notify CARB in advance of changing resin systems and must comply with the requirements of section 93120.3(b) of the ATCM for that product type.

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(c)(4) 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 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 of any change in their product manufacturing parameters or base resin manufacturer(s) or supplier(s) that constitute a modification outside the scope of their application for reduced testing under or an exemption from the requirements in section 93120.3(b) of the ATCM.

Executed at Sacramento, California on this 27th day of May 2021.



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Robert Krieger, Chief  
Risk Reduction Branch  
Transportation and Toxics Division