



ADOPTION OF PNS/PABES AS TECHNICAL REGULATION

ANTAM 8th Annual Meeting

December 15-16, 2021

Presented by:

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Presentation Outline:

- ❑ Rationale
- ❑ DA-BAFE and its Legal Mandate
- ❑ Adoption of Standards as Technical Regulation
 - Department Circular No. 15, Series of 2020
 - Department Circular No. 07, Series of 2021
 - Issuance of Certificate of Conformity

RATIONALE

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STANDARDS DEVELOPMENT

- ❑ The DA- Bureau of Agriculture and Fisheries Standards (BAFS), as mandated by the Agricultural and Fisheries Mechanization Law of 2013, develops standard specifications and test procedures for agricultural and fisheries machinery and infrastructures.
- ❑ These standards, being referred to as the Philippine National Standards/Philippine Agricultural and Biosystems Engineering Standards (PNS/PABES), are **voluntary** in nature.

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HOWEVER...

- ❑ The AFMech Law states that *“All agricultural and fisheries machinery and equipment, before it can be sold in the market, should be tested by the Agricultural Machinery Testing and Evaluation Center (AMTEC) and should pass the prescribed quality and performance standards”*.
- ❑ Further, it states that *“the DA and the LGUs, in collaboration with the PRB-ABE, shall enforce the standards on the manufacture, sale, and distribution of agri-fishery machinery and equipment”*.

The DA-Bureau of Agricultural and Fisheries Engineering (BAFE)

1898

2013

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LEGAL MANDATES

- The Bureau of Agricultural and Fisheries Engineering (BAFE) is a Bureau under the Department of Agriculture, created by the AFMech law of 2013.

Rule 23.7 The PCAF shall provide funding assistance on the organization and operationalization of the AFMeC at the national, regional, provincial/HUCs/ICCs and city/municipal levels.

SEC. 24. Strengthening the DA Agricultural and Fishery Engineering Groups. - Pursuant to Section 46 of Republic Act No. 8435, otherwise known as the "Agriculture and Fisheries Modernization Act of 1997", a Bureau of Agricultural and Fisheries Engineering (BAFE) is hereby created as a regular bureau of the DA which shall be under the supervision of the DA Undersecretary and shall have the following functions and responsibilities:

- (f) Coordinate and monitor the enforcement of standards and other regulatory policies on agricultural and fishery engineering;
- (g) Implement accreditation and registration scheme for agriculture and fishery machinery, tools and equipment, in coordination with technology generators;
- (h) Issue permits to operate to agriculture and fishery tools and equipment manufacturers, fabricators, assemblers and importers; and
- (i) Promulgate and implement accreditation guidelines for testing centers.

The BAFE shall be headed by a Bureau Director and Assistant Bureau Director, all appointed by the President.

The BAFE shall have the following divisions: (1) Engineering Plans, Designs and Specifications; (2) Programs and Projects Management; (3) Standards Regulation and Enforcement; and (4) Administration and Finance.

Modifications shall be made in the organizational structure and staffing pattern of the regional field units of the DA for the creation of Agricultural Engineering Division to strengthen the provision of agricultural engineering services necessary to carry out the

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LEGAL MANDATES

- (a) Coordinate, oversee and monitor the national planning and implementation of agri-fisheries engineering, farm-to-market road and other agri-fisheries infrastructure projects;
- (b) Assist in the national planning, coordination and implementation of the national agri-fisheries mechanization programs;
- (c) Prepare, evaluate, validate and recommend engineering plans, designs and technical specifications on agri-fisheries mechanization and infrastructure projects;
- (d) Oversee and provide technical assistance to the operations of the agricultural engineering divisions of the DA regional field units;
- (e) Coordinate and integrate all agricultural and fisheries engineering activities of the DA bureaus, attached agencies and corporations;

(f) Coordinate and monitor the enforcement of standards and other regulatory policies on agricultural and fishery engineering;

- (g) Implement accreditation and registration scheme for agriculture and fishery machinery, tools and equipment, in coordination with technology generators;
- (h) Issue permits to operate to agriculture and fishery tools and equipment manufacturers, fabricators, assemblers and importers; and
- (i) Promulgate and implement accreditation guidelines for testing centers.

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LEGAL MANDATES

❑ AFMech Law (Section 2, Article 1)

Ensure quality and safety of machineries and equipment locally manufactured or imported by strengthening regulation through the development and enforcement of machinery and machine performance standards, regular testing and evaluation, registration, and the accreditation and classification of suppliers, assemblers, and manufacturer to ensure compliance to prescribed quality standards.

❑ AFMech Law (Section 21, Article V)

The DA and the LGUs, in collaboration with PRB-ABE, shall enforce the developed standards on the manufacture, sale and distribution of agricultural and fisheries machinery and equipment, and its accreditation system for agricultural and fisheries facilities and establishments.

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Department Circular No. 15, Series of 2020

❑ Guidelines for the Establishment, Adoption, and Enforcement of National List of PNS/PABES

❑ Published last March 29, 2021 at Manila Bulletin



Republic of the Philippines
OFFICE OF THE SECRETARY
Batasan Road, Diliman
1100 Quezon City

October 27, 2020

DEPARTMENT CIRCULAR
No. 15
Series of 2020

SUBJECT : GUIDELINES FOR THE ESTABLISHMENT, ADOPTION AND ENFORCEMENT OF THE NATIONAL LIST OF PHILIPPINE NATIONAL STANDARDS/ PHILIPPINE AGRICULTURAL AND BIOSYSTEMS ENGINEERING STANDARDS (PNS/PABES)

WHEREAS, Section 2, Article II of the Republic Act No. 10601, "Agricultural and Fisheries Mechanization Law (APMech Law)", state that:

*Ensure the quality and safety of machineries and equip-
ment imported by strengthening regulation through the develop-
ment of machinery and machine performance standards, rigid
registration, and the accreditation and classification of
manufacturers to ensure compliance to prescribed quality.*

WHEREAS, pursuant to Section 21, Article V of the R.A. 10601, Bureau of Agriculture and Fisheries Standards (BAFS), in coordination with the BAEI and the AMTEC in consultation with the accredited fisherfolk, agricultural machinery assemblers, manufacturers and engineers shall develop standards, specifications and test procedures for machinery and equipment. These standards shall be in confor-
mance with the International Organization for Standardization (ISO) and shall be part of the existing Philippine Agricultural and Fisheries Engineering Standards (PAFES);

WHEREAS, Section 21, Article V of the R.A. 10601 (supra), further provides that the Bureau of Agriculture and Fisheries Standards (BAFS) shall enforce the manufacture, sale and distribution of agricultural and fisheries machinery and equipment, and its accreditation system for agricultural and fisheries facilities;

WHEREAS, Section 24, Article VI of the R.A. 10601 (supra), states that the Bureau of Agricultural and Fisheries Engineering (BAFE) shall enforce the enforcement of standards and other regulatory policies in engineering;

WHEREAS, Section 36, Article IV of the Republic Act No. 10911, "Philippine Agricultural and Biosystems Engineering Act of 2016" (Philippine Agricultural Engineering Standards (PAES) shall be the Agricultural and Biosystems Engineering Standards (PABES) of Technical Standards of all registered and licensed Agricultural (ABEs) in the practice of their profession;

WHEREAS, only eight (8) volumes of PAES were adopted production and post-production machinery, agricultural engineering materials, and standards for earth, gravel, bituminous Market Roads (PMR) by the DA thru A.O. No. 10, Series of 2000, A.O. No. 11, Series of 2002; A.O. No. 5, Series of 2004; A.O. No. 7, Series of 2009; A.O. No. 8, Series of 2011; and A.O. No. 12, Series of 2019;



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What is the National List of PNS/PABES?

- It refers to the established and adopted list of PNS/PABES that will serve as reference to the DA RFOs, Attached Bureaus and Agencies, LGUs, SUCs, MFADDIEs, NGAs, and private stakeholders, and in the enforcement of technical regulations of DA-BAFE

Objectives

- ❑ Establish the National List of PNS/PABES and its mechanism for adoption;
- ❑ Provide procedures for the review and approval of PNS/PABES for inclusion/exclusion to the National List including any amendment;
- ❑ Provide National List of PNS/PABES to be utilized by DA-RFOs, Attached Bureaus and Agencies, LGUs, SUCs, MFADDIEs, NGAs, and private stakeholders; and
- ❑ Serve as BAFE's reference on the enforcement of its technical regulations.

Department Circular No. 07, Series of 2021

- Supplemental Guidelines to DC No. 15, Series of 2020, Re: Guidelines for the Establishment, Adoption, Enforcement of National List of PNS/PABES

Republic of the Philippines
OFFICE OF THE SECRETARY
Ortigas Road, Diliman
1106 Quezon City

DEPARTMENT CIRCULAR
No. 07
Series of 2021

SUBJECT: SUPPLEMENTAL GUIDELINES TO DEPARTMENT CIRCULAR (DC) NO. 15, SERIES OF 2020, RE: GUIDELINES FOR THE ESTABLISHMENT, ADOPTION, AND ENFORCEMENT OF THE NATIONAL LIST OF PHILIPPINE NATIONAL STANDARDS/PHILIPPINE AGRICULTURAL AND BIOSYSTEMS ENGINEERING STANDARDS (PNS/PABES)

In addition to the provisions set forth in DC No. 15, Series of 2020 a national List of PNS/PABES is hereby issued.

Section 1. Objectives

The Circular aims to establish the National List of PNS/PABES in fisheries mechanization. Specifically, the PNS/PABES indicated is used as technical reference for the following:

1. Implementation of relevant technical regulations;
2. Design, manufacture, fabrication, and assembly of machinery;
3. Design and construction of agricultural and fisheries infrastructures;
4. Study of ABE and practice of ABE profession;
5. Implementation of agricultural and fisheries mechanization projects;
6. Procurement of agricultural and fisheries machinery and its machinery, infrastructures, and other agri-fishery engineer;
7. Signing and sealing of plans, designs, and specifications of machinery, infrastructures, and other agri-fishery engineer;
8. Testing and evaluation of agricultural and fisheries machinery (UPLB-AMFEC), other accredited testing centers, and certified fisheries machinery, infrastructures, and other agri-fishery;
9. Extension, Support, Education, and Training Services (ESST) fisheries machinery, infrastructures, and other agri-fishery;
10. Other purposes analogous to the foregoing.

Section 2. Scope

This Circular shall cover PNS/PABES related to agricultural machinery and infrastructures. This includes PNS/PABES developed by the UPLB-AMFEC of Agriculture and Fisheries Standards (BAFS). The PNS/PABES indicated shall include the basic type of standards namely specifications, test methods, and terminologies.

Section 3. National List of PNS/PABES

The PNS/PABES listed in Annex A of this Circular provides the basis for the implementation of relevant technical regulations utilized by other relevant agencies and sectors based on the provisions of the Circular.

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Annex A
National List of PNS on Agricultural and Biosystems Engineering

NO.	PAES /PNS NO.	TITLE	TYPE
1	PAES 106:2000	Soil Tillage and Equipment - Terminology	TERMINOLOGY
2	PAES 107: 2000	Hitch for Walking-type Agricultural Tractor	SPECIFICATIONS
3	PAES 108: 2000	Hexagonal Axle and Hub for Walking-type Agricultural Tractor	SPECIFICATIONS
4	PAES 109:2000	Walking-type Agricultural Tractor - Part 1: Pull-type	SPECIFICATIONS
5	PAES 110:2001	Walking-type Agricultural Tractor Part 2: Rotary-Tilling Type	SPECIFICATIONS
6	PAES 111:2000	Walking-Type Agricultural Tractor	METHODS OF TEST
7	PAES 112:2000	Lever-Operated Knapsack Sprayer	SPECIFICATIONS
8	PAES 113:2000	Lever-Operated Knapsack Sprayer	METHODS OF TEST
9	PAES 114:2000	Centrifugal Pump	SPECIFICATIONS
10	PAES 115:2000	Centrifugal, Mixed Flow and Axial Flow Water Pumps	METHODS OF TEST
11	PAES 116:2001	Small Engine	SPECIFICATIONS
12	PAES 117:2000	Small Engine	METHODS OF TEST
13	PAES 120:2001	Disc Harrow	SPECIFICATIONS
14	PAES 121:2001	Disc Harrow	SPECIFICATIONS
15	PAES 122:2001	Seeder and Planter	SPECIFICATIONS
16	PAES 123:2001	Seeder and Planter	METHODS OF TEST
17	PAES 124:2002	Walking-type Agricultural Tractor Part 3: Special Type (Front-Assist Tiller)	SPECIFICATIONS
18	PAES 125:2002	Sprinkler Head Part I: Rotating Impact-Driven Type	SPECIFICATIONS
19	PAES 126:2002	Rotating Sprinkler Head	METHODS OF TEST
20	PAES 127:2002	Drilling Rig	SPECIFICATIONS
21	PAES 128:2002	Drilling Rig	METHODS OF TEST
22	PAES 129:2002	Electric Motors	SPECIFICATIONS
23	PAES 130:2002	Electric Motors	METHODS OF TEST
24	PAES 131:2004	Moldboard Plow	SPECIFICATIONS
25	PAES 132:2004	Disc/Moldboard	METHODS OF TEST
26	PAES 133:2004	Disc Harrow	METHODS OF TEST
27	PAES 134:2004	Furrower	SPECIFICATIONS
28	PAES 135:2004	Furrower	METHODS OF TEST
29	PAES 136:2004	Agricultural Trailer	SPECIFICATIONS
30	PAES 137:2004	Agricultural Trailer	METHODS OF TEST
31	PAES 139:2004	Roll-Over Protective Structures (ROPS)	SPECIFICATIONS

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*Magsaganang ANI
Mataas na KITA*

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Objectives

The Circular aims to establish the National List of PNS/PABES relative to agricultural and fisheries mechanization. Specifically, the PNS/PABES indicated in the National List shall be used as technical reference for the following:

- ❑ Implementation of relevant technical regulations;
- ❑ Design, manufacture, fabrication, and assembly of agricultural and fisheries machinery;
- ❑ Design and construction of agricultural and fisheries infrastructures;
- ❑ Study of ABE and practice of ABE profession

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Objectives

- ❑ Implementation of agricultural and fisheries mechanization and infrastructure projects;
- ❑ Procurement of agricultural and fisheries machinery and infrastructures;
- ❑ Signing and sealing of plans, designs, and specifications of agricultural and fisheries machinery, infrastructures, and other agri-fishery engineering projects;
- ❑ Testing and evaluation of agricultural and fisheries machinery by the UPLB-AMTEC, other accredited testing centers, and certified test engineers; and
- ❑ Extension Support, Education, and Training Services (ESETS) for agricultural and fisheries machinery, infrastructures, and other agri-fishery engineering projects.

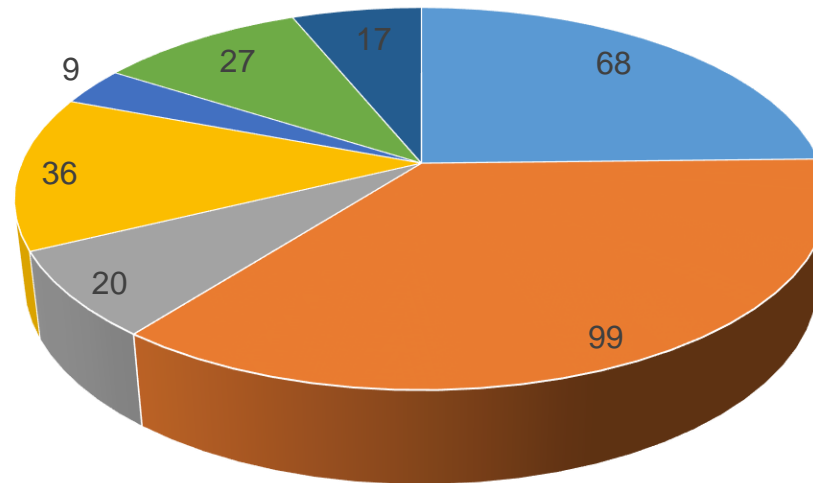
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Total Standards Adopted: 276

PNS/PABES ADOPTED AS TECHNICAL REGULATION



- Production Machinery
- Postharvest Machinery
- Engineering Materials
- Slaughterhouse Equipment
- General Standards
- Agricultural Structures
- Irrigation

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Issuance of Certificate of Conformity



Republic of the Philippines
Department of Agriculture
OFFICE OF THE SECRETARY
Elliptical Road, Diliman
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Department Circular No. 19
Series of 2018

SUBJECT: NATIONAL GUIDELINES ON THE ISSUANCE OF CERTIFICATE OF CONFORMITY FOR AGRICULTURAL AND FISHERIES MACHINERY

Pursuant to Sections 31 and 32 of the Republic Act No. 10601 otherwise known as the Agricultural and Fisheries Mechanization (AFMech) Law of 2013 and its Implementing Rules and Regulations (IRR), and Section 7 of Department Circular (DC) No. 5, Series of 2017, also known as the National Guidelines on Testing and Evaluation of Agricultural and Fisheries Machinery, this Guidelines on the Issuance of Certificate of Conformity (CC) for Agricultural and Fisheries Machinery is hereby promulgated and issued for information and compliance of government offices, private sector, farmers and fisherfolk. The Certificate of Compliance stipulated in DC 05, Series of 2017 will also be known as "Certificate of Conformity".

SECTION 1. Objectives

This Guidelines provides information and guidance on the issuance and enforcement of CC. The certificate will ensure the conformance of agricultural and fisheries machinery to the Philippine National Standards / Philippine Agricultural Engineering Standards (PNS/PAES) or other relevant standards identified by the Bureau of Agricultural and Fisheries Engineering (BAFE). Specifically, this Guidelines aims to provide assurance to consumers, industries and other stakeholders that the machinery conforms to the specified requirements in their respective PNS/PAES or other relevant standards identified by the BAFE and the PNS/PAES for the Guidelines on After-Sales Service. It intends to facilitate trade, fair competition and consumer acceptance of the machinery.

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What is Certificate of Conformity (CC)?

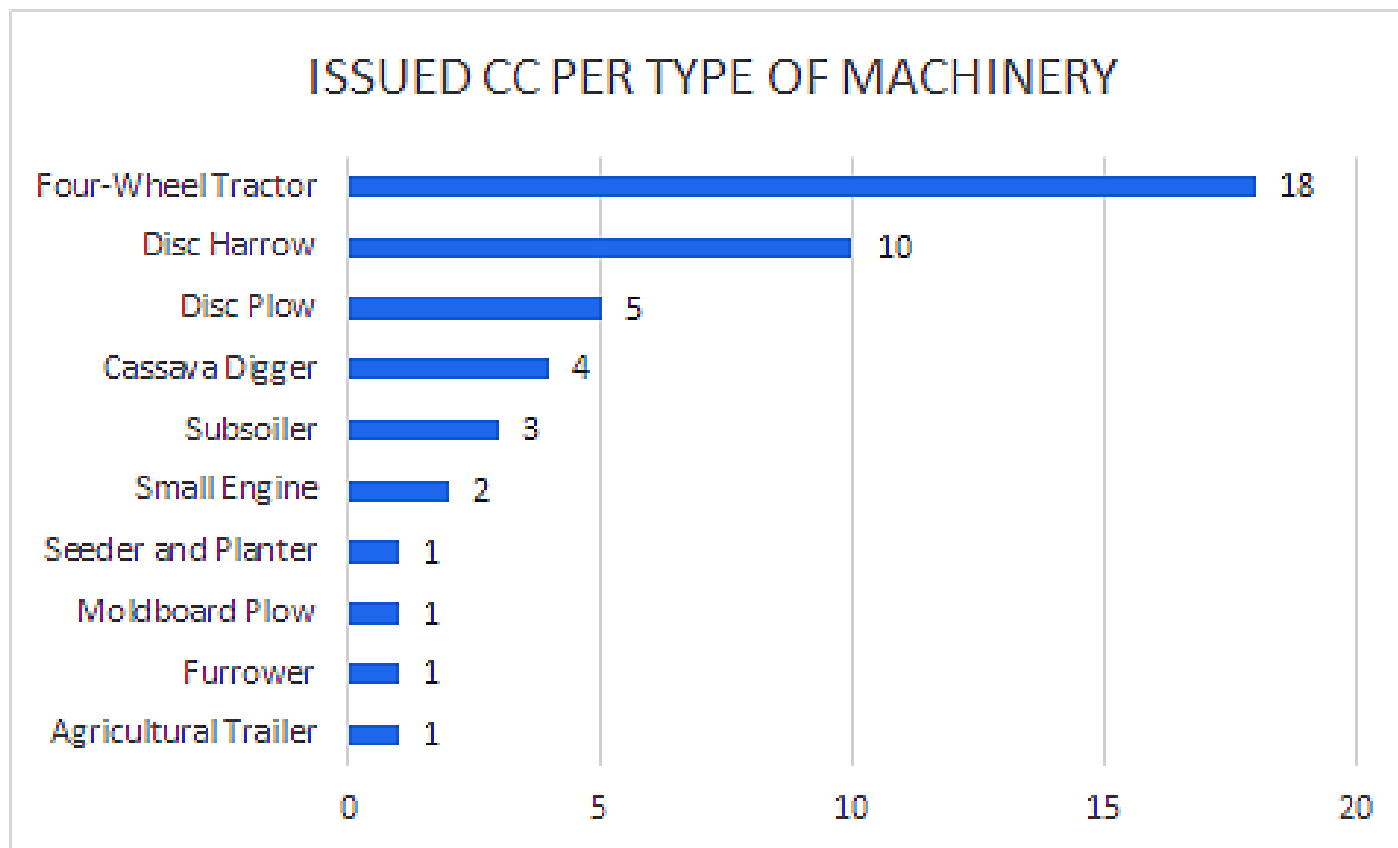
- CCs are certificates issued by the BAFE which guarantees that the agricultural and fisheries machinery conforms with PNS/PABES or other relevant standards identified by BAFE.

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Machine Issued with CC



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THANK YOU!

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