

# MEETING SIGN-IN SHEET

<b>Project:</b>	HFCs Public Workshop	<b>Meeting Date:</b>	December 9, 2019
<b>Facilitator:</b>	Ajo Rabemiarisoa & Christian Wisniewski	<b>Place/Room:</b>	DNREC Lukens Office

Name	Title	Company	Phone	E-Mail
Stephen Wieroniey	Director Polymethanes	ACC		Stephen.Wieroniey @americanchemists.com
Steve Thorpe	Wilmington, DE			

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Name	Title	Company	Phone	E-Mail
NANCY HANNIGAN		retired	302-543-6446	njhannigan@yahoo.com
Tim Love		BASF	302-268-4100	Tim.Love@BASF.com
JEFF HANSEN		DuPont	312-497-2968	jeff.hansen@dupont.com

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<b>Project:</b>	HFCs Public Workshop	<b>Meeting Date:</b>	December 10, 2019
<b>Facilitator:</b>	Ajo Rabemiarisoa & Christian Wisniewski	<b>Place/Room:</b>	GTCC Owens Campus

Name	Title	Company	Phone	E-Mail
James Miller		Palkowski	302.226.8702	j.miller@pgslescl.com
Alex Ayles	Director Gov Affairs	HARDIE	515-229-5431	ayles@hardie.com

# MEETING SIGN-IN SHEET

<b>Project:</b>	HFCs Public Workshop	<b>Meeting Date:</b>	December 18, 2019
<b>Facilitator:</b>	Ajo Rabemiarisoa & Christian Wisniewski	<b>Place/Room:</b>	DNREC State Street Commons

Name	Title	Company	Phone	E-Mail
Christina Banoub	Govt. affairs associate	Daikin US		christina.banoub@daikin.us.com
Laura Petrillo-Gunn		A+IRE		lpetrillo-gunn@ahrinet.org
Nicholas George		HCPA		ngeorge@thehcpa.org
Schuyler Pulley	Regulatory Consultant	Chemours		schuyler.pulley@chemours.com

You might not have the latest participant list because the server is down.

The participant list is now current.

[10:01 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
We will be starting at 10:05am

[10:07 2019/18/12 AM] Dean Groff:  
Dean Groff Danfoss

[10:07 2019/18/12 AM] Michael Pennington:  
**Michael Pennington - Heatcraft**

[10:07 2019/18/12 AM] John Gibbons:  
**John Gibbons, Carrier**

[10:07 2019/18/12 AM] Cosby, Ron:  
Ron Cosby - Ingersoll Rand

[10:07 2019/18/12 AM] KARPMAN Allen:  
Allen Karpman, Arkema

[10:07 2019/18/12 AM] Kane, Jennifer:  
Jennifer Kane - AHRI

[10:07 2019/18/12 AM] Bill Sickles:  
**Bill Sickles, InterMetro**

[10:08 2019/18/12 AM] Hershey, Lucas:  
PA DEP

[10:08 2019/18/12 AM] Emily Lamb:  
**Emily Lamb - MassDEP**

[10:08 2019/18/12 AM] Mark:  
**Mark Boncardo - Koura**

[10:12 2019/18/12 AM] Justin Koscher, PIMA:  
**Justin Koscher, PIMA (Polyisocyanurate Insulation Manufacturers Association)**

[10:12 2019/18/12 AM] Allan Chara:  
Allan Chara, Danfoss

[10:12 2019/18/12 AM] KARPMAN Allen:  
is there a presentation?

[10:13 2019/18/12 AM] Chris Forth:  
**Can you please email me the presentation?**

[10:15 2019/18/12 AM] Maureen Beatty:  
**Maureen Beatty - National Refrigerants**

[10:16 2019/18/12 AM] John Gibbons:  
**We can see slides**

[10:16 2019/18/12 AM] KARPMAN Allen:  
no, we can't see

[10:16 2019/18/12 AM] Maureen Beatty:  
**yes we can**

[10:17 2019/18/12 AM] Michael Pennington:  
I can see the slides

[10:17 2019/18/12 AM] Chris Forth:  
I can see the slides

[10:17 2019/18/12 AM] Ben Mathews:  
**Ben Mathews, Arneg USA**

[10:18 2019/18/12 AM] Michael Pennington:  
Hard to hear other speakers...

[10:22 2019/18/12 AM] John Gibbons:  
Difficult to hear what you just clarified

[10:24 2019/18/12 AM] Chris Forth:  
I'm not seeing the slides attached.

[10:25 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
<http://www.dnrec.delaware.gov/Air/Documents/under-development/de-reg-1151-update-public-workshop-presentation-december%202019.pdf>

The slides should be available via this link. We apologize again for the confusion.

[10:27 2019/18/12 AM] Chris Forth:  
**Thank you. I was able to download the slides**

[10:28 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
Link to draft language:  
<http://www.dnrec.delaware.gov/Air/Documents/under-development/de-reg-1151-update-public-workshop-agenda-december-2019-edited.pdf>

[10:56 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
Just a reminder that there will be a Q&A session at the end of the presentation

[10:57 2019/18/12 AM] Justin Koscher, PIMA:  
**Should the phone hold comment until the Q&A session?**

[10:58 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
You may submit via the chat box as you have them

[10:59 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
We will open the lines at the end of the presentation

[11:11 2019/18/12 AM] Chris Forth:  
**Please confirm the section 6.0 list for residential limits the scope to SNAP 20 and 21**

products.

[11:12 2019/18/12 AM] Helen Walter-Terrinoni:  
WHat?

[11:12 2019/18/12 AM] John Gibbons:  
Yes, please confirm that the Commercial AC is limited to SNAP 21.

[11:12 2019/18/12 AM] Chris Forth:  
To clarify residential "air conditioning"

[11:12 2019/18/12 AM] Helen Walter-Terrinoni:  
There is a one year extension for flammability for commercial refrigeration that will not be transitioning to flammable products

??

Am I allowed to speak?

[11:13 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
Yes you are unmuted

[11:18 2019/18/12 AM] Chris Forth:  
Can you please confirm the air conditioning products in 6.0 are limited to SNAP 20 and 21 product sectors?

[11:19 2019/18/12 AM] Christina Theodoridi:  
Chris, the only air conditioning products regulated in the proposed rule are chillers with an effective date of 2024. Residential ACs are not regulated.

[11:19 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
The end uses for air conditioning are for new centrifugal chillers and positive displacement chillers. The effective date of prohibition for these end uses is January 1, 2024

[11:20 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
Residential AC is not in the end uses in the list of prohibitions

[11:20 2019/18/12 AM] Chris Forth:  
Thank you

[11:22 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
We will open the lines. We ask that if you are not commenting, to please mute your lines to limit background noise. Thank you.

[11:23 2019/18/12 AM] Chris Forth:  
We can't hear anything now  
iin response to the question on stationary ref  
Yes

[11:23 2019/18/12 AM] Washington, Kevin:  
yes

[11:29 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
<https://dnrec.alpha.delaware.gov/air/permitting/under-development/>

[11:29 2019/18/12 AM] Victor O Marinich:  
Victor Marinich - Danfoss

[11:29 2019/18/12 AM] Chris Forth:  
Chris Forth - Johnson Controls, chris.m.forth@jci.com

[11:29 2019/18/12 AM] Abbey Brown:  
Abbey Brown, Washington Department of Ecology. Thanks, all.

[11:29 2019/18/12 AM] sue ann richardson:  
Sue Ann Richardson, MassDEP

[11:30 2019/18/12 AM] Rabemiarisoa, Ajo (DNREC):  
Thank you all for you participation

[11:30 2019/18/12 AM] Lauren Slawsky (ODEQ):  
Lauren Slawsky, Oregon DEQ

[11:30 2019/18/12 AM] Kildahl, Linda J. (ECY):  
Linda Kildahl, WA Dept of Ecology

The screenshot shows a Microsoft Teams meeting interface. The main window displays a presentation slide with the following text:

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Thank you!

Questions and Discussion

Regulatory Development Process Website  
<https://dnrec.alpha.delaware.gov/air/permitting/under-development/>

Conf Box  
Guest

The chat log on the left side of the screen contains the following messages:

Chris, the only air conditioning products regulated in the proposed rule are chillers with an effective date of 2024. Residential ACs are not regulated.

The end uses for air conditioning are for new centrifugal chillers and positive displacement chillers. The effective date of prohibition for these end uses is January 1, 2024.

Last message received on 12/18/2019 at 11:30 AM.

The meeting title is "Conversation (10 Participants)". The system tray at the bottom shows the time as 11:34 AM on 12/18/2019.