

1 STATE OF NEW HAMPSHIRE
2 PUBLIC UTILITIES COMMISSION

3
4 June 18, 2009 - 11:08 a.m.
5 Concord, New Hampshire

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8 RE: DRM 08-148
9 RULEMAKING:
10 Puc 900 Net Metering Rules.

11

12 PRESENT: Chairman Thomas B. Getz, Presiding
13 Commissioner Graham J. Morrison
14 Commissioner Clifton C. Below

15 Sandy Deno, Clerk

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17 APPEARANCES: (No appearances taken)

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23 Court Reporter: Steven E. Patnaude, LCR No. 52

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1 P R O C E E D I N G S

2 CHAIRMAN GETZ: Okay. Good morning.

3 We'll open the rulemaking hearing in docket DRM 08-148.

4 On May 1, 2009, the Commission voted pursuant to RSA 541-A

5 to initiate a rulemaking for New Hampshire Administrative

6 Rules Chapter Puc 900, rules for net metering, for

7 customer-owned renewable energy generation resources of

8 100 kilowatts or less. The Initial Proposal consists of a

9 readoption, with amendment, of the existing interim rule

10 that was prompted as a result of modifications to RSA

11 362-A. The proposed rule establishes reasonable

12 interconnection requirements for safety, reliability and

13 power quality for net energy metering. A rulemaking

14 notice was filed with the Office of Legislative Services

15 on May 12. The notice set forth today as a date for a

16 public hearing, and set a deadline of June 25 for the

17 submission of written comments. And, an order of notice

18 was also issued by the Commission on May 15 providing

19 public notice of the hearing today.

20 I'll note for the record that the

21 hearing is held pursuant to RSA 541-A:11, under the State
22 Administrative Procedures Act, for the purpose of taking
23 public comments on the proposed rules. I'll note also for
24 the record that all three of the Commissioners are present

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1 satisfying the quorum requirement under 541-A.

2 I have a sign-in sheet, individuals who
3 would like to speak. And, I'll just start at the top with
4 Ms. Matthews.

5 MS. MATTHEWS: Good morning, Mr.
6 Chairman, members of the Commission. Thank you for the
7 opportunity to comment on the rules. I am here on behalf
8 of National Grid. We will submit written comments, but I
9 wanted to take a few moments to outline our primary
10 concern, which is with Rule 905.01, which is the manual
11 disconnect switch. And, under the proposed rule, it
12 appears that a utility could not require a customer to
13 install a manual disconnect switch, in Section (a). In
14 Section (b) of 905.01, there is some options for the
15 utility to disconnect a customer from the grid. But our
16 concern is that some of those options would impact other
17 customers and cause more delays than there would be with a
18 manual disconnect switch.

19 For example, I'm not an engineer, but my
20 understanding is that isolating the customer could require

21 a bucket truck and rated lineman. Where, if there is a
22 disconnect switch, it could be operated at ground level
23 without safety gear.

24 We will suggest in our written comments

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1 a modification and revision to 905.01(a). We would like
2 to see all the utilities have some discretion with regard
3 to whether or not a manual disconnect switch can be
4 required. And, any other comments we will submit in
5 writing.

6 CHAIRMAN GETZ: Okay.

7 MS. MATTHEWS: Thank you.

8 CHAIRMAN GETZ: Thank you. Jason Keyes.

9 MR. KEYES: Good morning. I'm Jason
10 Keyes. I'm representing the Interstate Renewable Energy
11 Council. I have been working and representing IREC for
12 the past couple years. IREC is funded by the Department
13 of Energy to go state to state working on net metering and
14 interconnection. So, I'm not here on behalf of utilities
15 or on behalf of the environmental community, just to give
16 you some perspective of how things are done in other
17 states.

18 Over the past couple years I have been
19 active in New York, New Jersey, Florida, Illinois, Nevada,
20 New Mexico, and Utah. So, obviously, New Hampshire has

21 been at this for a while, and I'm not trying to come here
22 at the last minute, a month and a half before you need to
23 get your rule together, and say "you need to overhaul
24 things." I just want to go through and point out some of

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1 the things that pop out at me as unique.

2 Firstly, just go over what I think you
3 have done quite right. One is, to say that there won't be
4 an insurance requirement, that's been a game-stopper in
5 lots of states. And, I haven't heard any opposition to
6 that insurance provision, but that's a key thing to keep
7 in there, to say that the customer-generator is not
8 required to carry extra insurance.

9 Also, rollover, obviously, that came
10 through from the statute, but that's a key component of
11 net metering to be able to have excess generation rollover
12 on a kilowatt-hour for kilowatt-hour basis to the next
13 billing period and to subsequent periods.

14 And, also, the disconnect switch, in
15 some ways, it even went a little too far. I actually
16 agree with National Grid on the point that she made. In
17 states that have -- there are now about a dozen states, I
18 believe it's up to 14 states, that have some sort of
19 prohibition on a disconnect switch requirement. And, in,
20 I believe, all of them, the utility has the option to

21 require the disconnect switch at its cost, if it sees a
22 need for it. So, there shouldn't be a situation where,
23 for safety, it sees the need to put in a disconnect
24 switch, but it's not allowed to put one in. And, also, in

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1 all states that I can think of, the disconnect switch is
2 not required for inverter based systems. And, from what I
3 can see in this rule, you're covering all systems. And,
4 so, it would just be for inverter based systems.

5 And, what -- let's see. Then, stepping
6 down on the things that potentially could use some fixing.
7 First, you can't help with the fact that the statute says
8 that the cap on facility size is 100 kilowatts for net
9 metering. That does -- in the future, that probably will
10 be changed. That's far behind I believe the majority of
11 the states now. There are over a dozen states that have a
12 megawatt or more cap on net metering, and some have no cap
13 at all. And, about three-quarters of the capacity being
14 installed in California and New Jersey and Colorado, the
15 states that are really leading the distributed generation
16 market, about three-quarters of the capacity is in the
17 larger systems, commercial systems. And, I don't know
18 that there's a 100 kW break to that. But, generally,
19 larger systems are most of the capacity. Most of the
20 installations are small homeowner systems, but that small

21 percentage makes up a big part of the capacity.

22 What could be fixed, and I'm not sure

23 that you want to take on all these, but I'll just go

24 through them, is the -- let's see, there are -- right now,

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1 there are no screens in the process. So, there is, in the
2 federal rules and in lots of state rules, following the
3 same procedure, there are a series of ten screens, and
4 it's just a single page of screens. And, basically says,
5 "if you pass 1547, and you meet these screens, and several
6 of the screens are in some ways included in your rules,
7 but it's not really a straightforward thing that, if you
8 pass these screens, then you're done. And, in states that
9 have that, it's about a ten day process. You go through,
10 you pass the screens, and there's no question to it. And,
11 any installer that has gone through the process before
12 knows how to conform to the screens and get something
13 pushed through quickly. And, those -- so there won't be
14 any reason for the utility to come back and say "actually,
15 we want to study this more."

16 The timelines seem to have some
17 confusion. In the 904.02 and 04 and 05, it -- at one
18 point it says that there is a "ten day timeline for
19 inverter based systems". But, actually, there's a ten day
20 window for the utility to tell the customer-generator that

21 the application is complete. There isn't something in
22 there that I saw that says that there's actually ten days
23 in which to say whether the application is approved or
24 not. So, there ought to be something like that.

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1 Seventy-five (75) days for non-inverter based systems is
2 extremely long. And, plus screens in the FERC procedures
3 apply to most non-inverter systems and lots of small
4 biomass generators, for instance, or wind systems that are
5 not inverter based, would pass the screens and they would
6 fly through the procedures in a couple weeks, and, under
7 the rules here, it would be 75 days.

8 In 902.04, there's the definition of an
9 "eligible customer-generator", and it flows directly from
10 the regulation. It defines "customer-generator" as the
11 owner and operator of a system. And, predominantly,
12 especially in California now, the market is being driven
13 by third party ownership, and especially on larger
14 commercial systems. So, if you have a definition that
15 says that you got to own and operate, then you're cutting
16 out a good part of the market, and, in some ways, you're
17 restricting it to the wealthy. Because you're going to
18 have -- the only people who can really go forward with
19 this are people who have, say, for a home system that's
20 going to be 5 kilowatts, they're going to spend \$35,000.

21 Well, it's got to be somebody that's got that much money
22 to pay in the first place, and have the tax appetite to
23 take the tax credits to use it.

24 Whereas, if you've got a company that

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1 will come in and put solar facilities on low income
2 housing even on schools or churches, all of those kinds of
3 entities don't have any sort of tax appetite, but the
4 owner of the system can have a tax appetite. So, there's
5 a problem there, though, that the regulation says "owns
6 and operates". But the regulation also has, in its first
7 section, has a provision saying that you want to do the
8 best you can to promote renewable energy. And, so, a way
9 to get around this somewhat is just to broadly interpret
10 "owns and operates", to say that "if there's an ownership
11 interest in the system". So, for instance, under this
12 third party ownership, almost always the
13 customer-generator has an option to buy the system
14 sometime in the future. So, they have some sort of
15 ownership interest. Or, another way is a leasing model.
16 So, a third party owner leases it to the customer, and so
17 -- and, at some point, the customer has the option to buy
18 the system. So, if there's -- if that's broadly
19 interpreted, then you're going to allow more systems, and
20 you're going to allow systems on schools, for instance,

21 that there's no way a school can buy a 100 kW system for
22 \$700,000. But, if they have a third party owner coming in
23 and saying "we'll install it for you, and sell you the
24 power cheaper than you get from your utility", then it

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1 does make sense.

2 CHAIRMAN GETZ: And, just one thing,
3 Mr. Keyes.

4 MR. KEYES: Yes.

5 CHAIRMAN GETZ: I think you mentioned a
6 couple times, and you did here, to the "regulation". Were
7 you meaning to refer to the "statute"?

8 MR. KEYES: I'm sorry, the statute.
9 Sorry about that.

10 In 905.06, there's a threshold provided
11 there that says that the utility will consider more than
12 7.5 percent of maximum load on a circuit as a threshold
13 above which it's important to go and study what impact
14 this generating facility will have. The standard in the
15 FERC regulations and in lots of states is 15 percent.
16 And, that 15 percent was derived by looking at your
17 typical circuit, the max -- the difference between the
18 maximum load and the minimum load is -- the minimum load
19 is somewhere around 30 percent of the maximum load. So,
20 15 percent was just picked as "Well, that's about half of

21 what we expect the minimum load to be. So, we're pretty
22 darn sure that, if all the generation is on, and you're at
23 a period of minimum load, you still will have more load
24 than generation on the circuit, and so you won't be

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1 backfeeding to the transformer." And, it doesn't -- that
2 seems like a pretty conservative threshold, that's been
3 working just fine in other states. So, I would suggest
4 that 7.5 percent is unusually conservative.

5 There's also a provision in there for
6 how 20 percent of the maximum load be on the generator,
7 and I haven't seen that provision in any other state
8 before. I'm not an engineer, I'm not sure that -- that
9 there probably is some sort of basis for that, but,
10 anyway, it hasn't been done in other states.

11 So, those are sort of the larger issues.
12 I'll point out a couple smaller issues. In your order a
13 couple years ago, you discussed both "interconnection" and
14 "time-of-use metering". And, so, time-of-use is a big
15 issue. It's not addressed at all in your net metering
16 rule. So, if you've got a time-of-use customer, what
17 happens? And, what other states have grappled with there
18 is, well, we would want to have net metering by time bin.
19 So, if you've got three time bins, if you've got excess in
20 your peak in July, then it rolls over to the peak time bin

21 in August. And, then, what happens at the end of the
22 year, if the peak happens to coincide with Monday through
23 Friday during daylight hours, and you may have excess for
24 the year there, but be paying in the other categories.

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1 And, so, you can have a provision to roll over at the end
2 of the year any excess in the peak to your shoulder, for
3 instance, or from your shoulder to your off-peak.

4 There, I won't go through, there are
5 some inconsistencies in terms and grammar, and I can put
6 those in my comments. There is -- I'm sorry, I didn't
7 write down the section, but there is a load break test
8 that's, and I would have to look up the section, but the
9 utility has the option of requiring an annual load break
10 test. So, the customer would need to disconnect from the
11 utility and show that the inverter actually works. The
12 inverters are all built to the UL 1741 specification.
13 That's like their main function is, when the grid goes
14 down, it recognizes that. And, I don't know of any reason
15 why, if it worked in the first place, that function would
16 stop working. So, I don't see a need for a load break
17 test. I don't -- Other states do have some sort of
18 provision saying that the utility, with good cause, can
19 require a load break test. I just want to avoid the
20 possibility that that's going to flow into the terms and

21 conditions, and that it's just going to be a standard that
22 they just require everybody to do a load break test.

23 I already addressed, I think, that for
24 the disconnect switch, it should just be inverter based

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1 systems. And, on sort of a larger scale, lots of rules
2 have some sort of standard interconnection agreement, or,
3 at least for the simplified agreement, there are standard
4 terms and conditions. So, for instance, the SCHIP has a
5 two-page terms and conditions that goes along with the
6 application. So, what you've got now is a model
7 application, and it refers to "terms and conditions", but
8 there are no terms and conditions in your rules. So, it
9 appears that what's going to happen is the utilities are
10 going to submit their terms and conditions, you're going
11 to approve those terms and conditions by utility. But you
12 can either include the terms and conditions from the FERC
13 SCHIP in your rule or you could reference them and say
14 there's a presumption that those are reasonable, and the
15 utilities could modify those as they see necessary.

16 I'd be happy to answer more questions on
17 it, but I don't want to monopolize your time.

18 CMSR. BELOW: A couple of questions.

19 You said you're going to provide written comments, right?

20 MR. KEYES: Right, a week from now.

21 CMSR. BELOW: And, can you give examples
22 of how other states have addressed time-of-use, and do you
23 know of instances where dynamic pricing has been addressed
24 in net metering rules?

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1 MR. KEYES: Dynamic pricing has not been
2 addressed, because that kind of gets you to the ultimate
3 where there are no bins. Logically, you would say "well,
4 okay, we'll just take the retail price at that time and
5 credit the customer that amount." But that gets you into
6 exactly the territory you don't want to go with net
7 metering, because that involves a payment. Once you have
8 a payment of some sort, then you worry whether that's
9 something that the customer has to record for tax
10 purposes, whether it nullifies his insurance provisions in
11 his homeowner's insurance because he's got a home-based
12 business because he's getting paid for something. Whether
13 FERC has jurisdiction then, because there's a sale to the
14 utility for resale. So, we try and avoid, like the
15 plague, any implication that there's a payment. But it's
16 a really -- it's a sticky issue when you get to dynamic
17 pricing. Fortunately, there aren't a whole lot of
18 dynamically priced customers. But one option is to just
19 say, for those, there could be some sort of standard
20 payment, there could be the avoided cost, plus some basis

21 for the other benefits of net metering.

22 For the tiered approach, California has

23 a time-of-use provision. And, they're currently looking

24 over that. And, the recommendation that I just said of

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1 taking any excess at the end of the year and transferring
2 it over to the next bin down is something that IREC is
3 proposing in California now. Because as it's turned out,
4 in California, surprisingly enough, 10 percent of the
5 customers have excess generation at the end of the year,
6 and that's not for time-of-use customers, but just in
7 general. So, lots and lots of customers went out and they
8 sized their system based on their consumption over the
9 past year. And, what do you know, once they put up a
10 solar system, they get a lot more conscious of their
11 usage, and they put in the right bulbs and they turn out
12 the lights and do all the right stuff, and then they end
13 up with more generation than load. So, there is an issue
14 there for excess generation. And, so, presumably, the
15 same sort of thing would happen with time-of-use and leave
16 some customers with excess.

17 CMSR. BELOW: I think that's all. Yes.

18 CHAIRMAN GETZ: Okay. Thank you.

19 MR. KEYES: Thank you very much.

20 CHAIRMAN GETZ: Mr. Eaton.

21 MR. EATON: Good morning. My name is
22 Gerald Eaton. I'm Senior Counsel with Public Service
23 Company of New Hampshire. We support adoption of the
24 rules as they have been written, for the most part. We

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1 were involved with the process. And, I think the
2 Commission should be aware, there was another process
3 going on at about the same time, and that had to do in
4 docket DE 06-061, the Energy Policy Act docket. And,
5 specifically, the utilities filed either tariffs or
6 standards for interconnections up to -- they were inverter
7 based interconnections up to 100 kilowatts. And, the
8 screens that the previous speaker was talking about are
9 included in PSNH's standards. So, again, the simple
10 inverter based systems would fly through the process, as
11 long as they match those screens, and would qualify very
12 quickly. So, consideration of these rules should also
13 look to some of those filings by Grid and Unitil and PSNH
14 and the Co-op, as far as their interconnection standards
15 that was in docket 06-061.

16 The inverter is a device, as I
17 understand it, that takes direct current and switches it
18 to alternating current, so it can be used by the customer
19 or delivered to the grid. The UL listed inverters stop
20 working when they lose utility power. So, essentially,

21 the disconnect switch is contained within the inverter, as
22 long as it's working. So, as far as the manual disconnect
23 switch, which is about the closest thing we come to any
24 controversy under these rules, we would like the option to

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1 explore the manual disconnect switch on non-inverter
2 systems. The ones that we already have the discretion to
3 do a more elaborate interconnection study, because those
4 are the systems that may send power out onto the system
5 when we don't want it.

6 Under those types of investigations, the
7 rules call for 75 days for a study to be done. I don't
8 know about the other utilities, but PSNH doesn't have a
9 separate department that deals just with interconnection
10 studies. It's the people that are already doing work on
11 system protection. And, that means they're also doing
12 studies for PSNH as to different changes to the system and
13 what protection needs to be involved with that. So, in
14 order to -- in order to be able to handle not only
15 internal work, as well as interconnection studies, it may
16 take 75 days just simply to address the -- to address the
17 study, in addition to all the other work that needs to be
18 done in that area.

19 The previous speaker talked about
20 standard terms and conditions. Those standard terms and

21 conditions are contained, again, I refer to the
22 interconnection standards that were filed in December of
23 2008, in DE 06-061. So, there are some standard terms and
24 conditions there that the Commission can refer to, and

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1 that the customer gets a copy of those.

2 And, as far as -- I haven't spoken with

3 anyone yet, but, as far as the idea of the owner/operator,

4 I think it's important to PSNH that we have some kind of a

5 contact or some kind of relationship with an entity that

6 knows the system. If a third party, a foreign

7 corporation, out-of-state corporation installs a system on

8 low income housing, we're not opposed to that at all.

9 But, if there needs to be some interaction on how our

10 system operates with that system or whether there needs to

11 be a disconnect or whether there needs to be a test, we'd

12 like someone that we can contact that understands what's

13 going on, as opposed to, if it's simply a building

14 superintendent, who knows nothing about that system,

15 because it was installed and certified by a company that

16 owns it somewhere else, I think we need to have some

17 contact and some way of interacting with that -- with that

18 person who understands the system, as opposed to simply

19 someone who happens to reside or own the building and

20 knows nothing about the system.

21 I think that's all I have to comment on.

22 If the Commission has any questions?

23 CMSR. BELOW: I do. On the disconnect

24 issue, your primary concern is the non-inverter based

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1 system. And, I guess my question is, where pulling the
2 customer meter, you know, seems like it's an obvious
3 option. Would you -- Are you looking for an option to
4 potentially require a disconnect switch, where pulling the
5 customer meter is not an easy option? I mean, would that
6 address your concern potentially? Or, if you can't answer
7 that today, maybe you can explore that in your written
8 comments. You know, the circumstances where pulling the
9 customer meter, you know, seems like an alternative to a
10 disconnect switch, but maybe that's not always accessible
11 or available or there are other circumstances where you
12 would want a disconnect switch.

13 MR. EATON: Sometimes meters are located
14 inside of buildings, and we have access during normal
15 business hours, but not at a time when there's -- when we
16 may need to operate that. Again, if we ever came to an
17 impasse with a customer, where we really needed the
18 ability to disconnect that, we could install a switch at
19 the transformer, and it would be our switch, and we would
20 interrupt the customer that way and interrupt the flow of

21 power out from the generator.

22 CMSR. BELOW: Okay. Thank you.

23 CHAIRMAN GETZ: Thank you. Is there

24 anyone else that would like to make a public comment

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1 today?

2 MR. EPLER: Yes, Mr. Chairman. We had
3 indicated that we didn't have comments, but Mr. John
4 Bonazoli, who is the Manager of Distribution Engineering
5 for Unitil Services Company, which provides engineering
6 services to Unitil Energy Systems, is here and would like
7 to make a couple comments.

8 CHAIRMAN GETZ: Please.

9 MR. BONAZOLI: Good morning. As
10 Mr. Epler said, I'm John Bonazoli. I'm the Manager of
11 Distribution and Engineering for Unitil. I've got a
12 couple comments. One of these is on the disconnect, which
13 has been spoken about. I just want to add a couple
14 things. In the past, when the utilities got together with
15 the Staff on the original 900 rules, we had agreed that
16 below 10 kW a disconnect was not required. One of the
17 main reasons for this was that, up to 10 kW, the crews are
18 fairly confident with pulling the meter, because there's
19 not that much current that they're disconnecting. Over 10
20 kW, they're not very comfortable with -- in pulling the

21 meter. So, then, they would have to go and remove taps at
22 the distribution transformer. And, as the attorney for
23 National Grid had said, this is going to require more time
24 and more cost and, of course, that all goes to the

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1 ratepayer. So, we would -- we'd recommend that we bring
2 that back to the original 900 rules, that up to 10 kW it
3 may be required, but over 10 kW it is required for any
4 generating facility.

5 CMSR. BELOW: Would you include inverter
6 based ones over 10 kW?

7 MR. BONAZOLI: Well, as previously said,
8 an inverter by design, if the line -- if the line goes
9 dead, by design, the inverter is supposed to open up. We
10 have a couple concerns with that. One, just safety, that
11 we've got to trust the inverter, that the inverter is
12 working. There is no maintenance testing that you can do
13 for an inverter. So, there's nothing that we can require
14 that requires us to test the inverter periodically. So
15 after a few years, we don't know if the inverter is
16 working.

17 Secondly, there are some inverters that,
18 if you lose your -- if the customer loses their main
19 service, there are some inverters that, say, that they
20 will go into a backup mode, which will still allow the

21 generator to be generating, but it will open up a contact
22 or something between the invert and the incoming line.
23 One -- There was one inverter that did get their UL 1741
24 listing with that feature. But, then, that listing was

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1 removed, because the inverter was tested again, and so
2 they lost their listing. So, that is the concern that we
3 would have, even with inverter systems.

4 And, I know, in the past, some people
5 were saying "a disconnect switch would add cost to the
6 customer's project." The cost would really be minimal. I
7 mean, you're talking about \$1,500 installed for a
8 disconnect switch, where these systems are tens to up to
9 hundreds of thousands of dollars to install. So, the cost
10 savings, really, for a disconnect switch for the safety
11 would be minimal.

12 My second point is on 9.7 -- 907.01. In
13 Paragraph 1.d, it states that "Facilities greater than 35
14 kW certify that they are in compliance with IEEE Standard
15 1547 for harmonics." We would recommend that all
16 facilities comply to IEEE 1547. 1547 is the national
17 standard that most states are going by and the utilities
18 use that. So, we would just recommend that all -- that
19 all facilities comply to IEEE 1547.

20 Any questions? That's the only

21 statements we have.

22 CHAIRMAN GETZ: Thank you. Anyone else

23 who would like to comment this morning?

24 (No verbal response)

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1 CHAIRMAN GETZ: Hearing nothing, then we
2 will close the public hearing, await written comments that
3 are due in a week, and then we'll take further action
4 based on those comments. Thank you, everyone.

5 (Whereupon the hearing ended at 11:42
6 a.m.)

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