

**In Re:**

*DE 13-298 RENEWABLE ENERGY INCENTIVE PROGRAM FOR  
C & I BULK FUEL-FED WOOD PELLET CENTRAL HEATING SYSTEMS*

---

*Public Comment Hearing  
June 3, 2016*

---

*SUSAN J. ROBIDAS, N.H. LCR  
30 James Pollock Drive  
Manchester, New Hampshire 03102  
(603) 622-0068 or (603) 540-2083  
shortrp@comcast.net*

Original File 060316 DE13-298.txt

**Min-U-Script® with Word Index**



Page 5	Page 7
<p>1 decrease in the incentive level to reflect 2 those changed market conditions. 3 In this case, as contrasted with 4 the residential program, there are no fuel 5 storage rebate adders being proposed. However, 6 in this program, at least for the larger 7 systems, 200,000 Btu per hour and above, the 8 Staff is proposing that those larger systems be 9 required to become eligible for thermal RECs. 10 And in order to assist those installations in 11 achieving that goal, Staff is proposing that 12 there be a \$5,000 per system adder to assist in 13 the installation of thermal metering equipment 14 that would comply with the 2500 rules for 15 thermal REC heat measurement and verification. 16 As with the residential program, 17 we heard from certain stakeholders that we 18 should consider opening up the eligible fuel 19 sources to include processed dried chips in 20 addition to fuel wood pellets. And at this 21 time, Staff is not proposing that the 22 eligibility standards be changed to permit 23 chips in addition to pellets, primarily, again, 24 because of the interest in continuing</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p>1 MR. DRESSER: Dutch Dresser, Maine 2 Energy Systems. My remarks will be exceedingly 3 brief. They haven't changed much from a few 4 minutes ago. 5 I want to endorse the 6 recommendations of Staff. I think they're 7 right on target. Once again, I find RECs to 8 have particularly long-term value to the 9 industry, so I heartily endorse the notion that 10 you support metering equipment to get more 11 people able to take advantage of the RECs and 12 to sort of preempt the question. I would favor 13 the addition of processed dried chips in the 14 name of equity. Thank you. 15 CHAIRMAN HONIGBERG: Thank you, 16 Mr. Dresser. 17 Joe Short. 18 MR. SHORT: Joe Short, Vice-president 19 with the Northern Forest Center. And rather 20 than repeat everything I said earlier, I'll 21 submit written comment to that effect and just 22 say a few things here. 23 We are supportive of the Staff's 24 recommendations to temporarily increase the</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>
Page 6	Page 8
<p>1 development of the fuel pellet industry, and, 2 in particular, its distribution networks, and 3 the concern that letting other fuels become 4 eligible would perhaps compromise that goal. 5 And, as with the emission -- excuse me -- as 6 with the residential program, Staff is also 7 proposing that the particulate matter emissions 8 standards be lowered to make the standards more 9 strict, in line with what is in place in 10 Massachusetts, and that represents a decrease 11 from the current level of .32 pounds per 12 million Btu's to .1. Our understanding is that 13 most of the equipment that's sold, that would 14 be eligible for a rebate here, can easily meet 15 this standard. And we believe this is the 16 appropriate time to lower the standard and 17 reflect that reality. I think that's all I 18 have for now. 19 CHAIRMAN HONIGBERG: All right. We 20 have six people who have indicated they want to 21 speak, and one indicates that maybe she'll 22 speak. We'll circle back to her. So we'll 23 take them in the order in which they signed up 24 and start with Dutch Dresser.</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p>1 rebate for these commercial and industrial 2 systems, require the larger systems be 3 certified as REC-eligible. And like 4 Mr. Dresser, I think the metering rebate adder 5 is a great idea and one that will be greatly 6 beneficial. We support the changes to the 7 emission standards as well. And we'd just make 8 the observation that, again, in this climate of 9 tough sell for these systems, that these larger 10 systems have particular value as potential 11 anchor users because they use larger volumes of 12 pellets. And we have seen in our own 13 experience continued momentum, or more momentum 14 on this side than on the residential side. So, 15 as you're looking for strategy to support this 16 industry through this difficult time, these 17 commercial rebates are particularly important. 18 Thank you. 19 CHAIRMAN HONIGBERG: Next speaker is 20 Dick Henry. 21 MR. HENRY: Thank you, Mr. Chairman, 22 and members of the Commission. My name is Dick 23 Henry. I hot zero, and we specialize in hot 24 water district energy systems. This rebate</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>

<p style="text-align: right;">Page 9</p> <p>1 would be most helpful in that effort. And its  2 initial objective, as I understand it, was to  3 try and improve -- one of its objectives was to  4 improve the trucking capability of a  5 distribution system around the state. And I  6 think it's obvious that the energy density of  7 the fuel is related to how far you can truck  8 it. So, pellets are relatively energy dense;  9 green chips, at 48 percent-plus moisture, are  10 not so dense and very heavy. So, one of the  11 innovations that has taken place since this  12 rebate was initially implemented is the  13 creation of dry chips, which by definition are  14 dried down to 30 percent moisture or less. And  15 this is a relatively new market, but it's being  16 further encouraged by the fact that many of the  17 larger, more sophisticated boilers have the  18 capability of burning both pellets and/or dried  19 chips. The advantage of a dried chip is that  20 it's about -- at the moment, the current market  21 is about 37 percent less expensive per million  22 Btu's than pellets; so, pellets are going for  23 about \$240 a ton with 16.4 million Btu's, and  24 dried chips going for about \$120 a ton with</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 11</p> <p>1 So, this rebate not only would  2 help suppliers, but it would also help push the  3 technology on the drying side to go further.  4 As has been mentioned before,  5 there's a real interaction between the  6 commercial, industrial and residential markets.  7 And so the oil industry has been doing this for  8 years, where I am told an oil delivery truck  9 goes out, makes all its residential deliveries  10 and still has 200 gallons left in the tank, it  11 will go to the local high school and top off  12 the 6,000- or 10,000-gallon high school tank  13 and then doesn't have to deadhead back with  14 fuel. Then, if there's an emergency -- and I'm  15 not quite so sure about this. But if there's a  16 real emergency and someone's run out of oil and  17 there's a truck nearby, if he needs to, he can  18 go take some of that oil back from the high  19 school tank and make that emergency delivery.  20 So it makes a much more resilient delivery  21 system for the whole complex. So, potentially,  22 that same situation might emerge for dry chips.  23 And again, truck size lends  24 itself to less trucking costs. So, many of the</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>
<p style="text-align: right;">Page 10</p> <p>1 13-plus million Btu's. So, this is a really  2 interesting development that the boiler  3 technology can now accept and could potentially  4 expand the market and reduce the operating  5 costs of these larger boilers that are being  6 used in schools, district energy systems and  7 large industrial situations.  8 So, I'm here to speak to  9 expanding the rebate to include dried chips at  10 30 percent more because I think this is going  11 to drive this market and develop more  12 innovative drying systems. So, right now when  13 we dry a chip, we're using a boiler often run  14 on wood chips itself that tries to dry the chip  15 down in two days. But we're storing a lot of  16 these chips for three or four or five months  17 during the summer, and the potential here is to  18 use solar thermal energy to further dry the  19 chip as it's sitting there waiting to be  20 utilized the following fall. Every percentage  21 of water that you can dry out of that chip is a  22 good thing, in terms of, again, increasing the  23 energy density for shipping and giving the  24 customer more Btu's per ton.</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 12</p> <p>1 pellet deliverers have trucks that can take  2 16 tons or less for domestic deliveries because  3 they're small and can get in and out of small  4 trucks. But it's a heck of a lot more cost  5 effective to be able to deliver, you know,  6 30 tons in a trailer truck. So, dry chips,  7 again, lend themselves to delivering larger  8 trucks to central systems. And in our case,  9 where, you know, we were developing a district  10 energy system for a local mill town, you know,  11 we would have put in four of these  12 1250-kilowatt boilers to serve the whole  13 downtown area, and it would have been very,  14 very helpful if, in addition to the T RECs, we  15 had some kind of a rebate to help with that  16 initial expenditure, because even one of those  17 1250-kilowatt boilers cost \$350,000 apiece. So  18 this would help the Cap X, and I think it would  19 significantly expand the market.  20 So, again, I really encourage  21 you to not choose the technology, but choose  22 the performance, which is, you know, 30 percent  23 moisture or less, and include dry chips in this  24 proposed rebate. Thank you.</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>

<p style="text-align: right;">Page 13</p> <p>1 CHAIRMAN HONIGBERG: Commissioner  2 Scott has a question.  3 CMSR. SCOTT: Thank you. Presuming  4 we were to adopt the more stringent emissions  5 requirements, and presuming we were to move  6 beyond just wood pellets, you were very  7 particular in your talk to us to say dry chips.  8 MR. HENRY: Correct.  9 CMSR. SCOTT: Do we really need to be  10 that particular with that emission standard?  11 Because my guess would be a wet wood chip would  12 not meet that requirement.  13 MR. HENRY: Well, that's a good  14 point. And you made one of the points that I  15 forgot to make in my talk, which was, the drier  16 the chip, the more easy the emissions controls  17 and less expensive the emissions controls can  18 be. I think, for the time being, you're  19 probably right. But I think there's a much  20 larger green chip market out there that is  21 pretty well developed. And what needs the  22 incentive right now is these chips of  23 30 percent or less. And the thing about the  24 green chip market is there's no value added</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 15</p> <p>1 level. I agree with the Staff that an  2 additional fuel storage rebate adder is not  3 necessary for commercial and industrial systems  4 because, almost by definition, they're  5 installing systems that can take a full  6 truckload, quantity deliveries. They don't  7 need any extra assistance.  8 With respect to the requirement  9 that systems over 200,000 Btu be required to be  10 certified as eligible for participation in the  11 RPS thermal REC program, I guess I'm generally  12 supportive of that. But I will say I do hope  13 that, if and when the Commission reopens the  14 PUC 2500 rules, it will revisit the question of  15 what is a small system and what is a large  16 system, and where is that drawing line, and  17 also revisit the stringency of its requirements  18 around metering for small systems. Metering is  19 a -- when the rules were being written, it was  20 sort of an amorphous concept. And as we've  21 come to understand the technical complexities  22 of metering, the cost of metering, the cost of  23 stamped New Hampshire engineer certification of  24 the meters, which is required by the PUC 2500</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>
<p style="text-align: right;">Page 14</p> <p>1 there. You know, that's just coming out of the  2 woods and going to the boiler -- coming out of  3 the woods, coming out of the chipper. I mean,  4 some chips are delivered six hours after  5 they're chipped. And it seemed to me the  6 intent of this was to get a value-added product  7 that would help improve the distribution  8 system. And the distribution system for green  9 chips right now is, you know, pretty well  10 developed and doesn't need the help. And I  11 think, given the limited funds that you have,  12 it would be more advantageous to put the rebate  13 dollars into these value-added products rather  14 than a green chip.  15 CMSR. SCOTT: Thank you.  16 CHAIRMAN HONIGBERG: Next speaker is  17 Charlie Niebling.  18 MR. NIEBLING: Thank you, Mr.  19 Chairman, members of the Commission. I'm  20 Charles Niebling, partner with Innovative  21 Natural Resource Solutions, representing New  22 England Wood Pellet today.  23 I want to support the Staff's  24 recommendation regarding the increase in rebate</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 16</p> <p>1 rules, what we've come to learn is that the  2 combined effect of all those requirements  3 basically precludes any meaningful  4 participation by smaller systems in the RPS  5 Thermal REC Program, and that dividing line is  6 considerably higher than 200,000 Btu's.  7 So there's a whole, sort of "no  8 man's land" of projects that the incentive just  9 is not sufficient enough to offset the  10 administrative and compliance costs. That's an  11 issue for another day, but it's relevant to  12 this whole question because you're saying now  13 that you have to be REC-eligible. Doesn't mean  14 you have to sell your RECs, but you have to be  15 REC-eligible, which means you have to go  16 through the whole certification process, even  17 with the adder for the meters, which is  18 tremendously helpful. You've got the  19 engineers' costs, you got the independent  20 monitor costs. And for a lot of these smaller  21 system owners, it's a rather intimidating  22 process.  23 It may not seem that way to you  24 on the receiving end, Barbara, but for a little</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>

<p style="text-align: right;">Page 17</p> <p>1 school district in the middle of nowhere, it's  2 quite an undertaking to get approved by the  3 PUC.  4 CHAIRMAN HONIGBERG: Mr. Niebling,  5 why don't you direct your comments to us rather  6 than Staff.  7 MR. NIEBLING: I'm sorry. My  8 apologies. Thank you for that reminder.  9 So, that's my comment on that.  10 And I do support comments made  11 by the previous speaker with respect to  12 extending qualification of the commercial and  13 industrial rebate to refined dry chips.  14 Another speaker may be able to speak to this,  15 but I believe the acronym "PDC" is trademarked,  16 and I would avoid using it to describe this  17 product. I would come up with a more generic  18 term for the product or for the particular  19 dried, refined chip fuel.  20 And one reason -- to Mr. Scott's  21 question -- to Commissioner Scott's question, I  22 think it makes sense to draw a line between  23 refined dry chip and just conventional chips or  24 green chips, is that dry chips can be delivered</p> <p style="text-align: right;">Page 18</p> <p>1 pneumatically. They can be delivered through  2 truck technology that is comparable in many  3 respects to the pellet technology. It may not  4 necessarily be the same truck, but the  5 technology does exist to deliver that fuel  6 pneumatically into silo storage, similar to  7 pellet storage. So I think that's another  8 justification for making a distinction between  9 a 30-percent moisture content chip and a  10 conventional chip, such as the type of fuel  11 that bigger schools and the wood-fired power  12 plants are burning.  13 The emission standard, I  14 honestly don't know whether these semi-dry chip  15 boilers can meet that .1 pounds per million Btu  16 without an electrostatic precipitator or other  17 significant state-of-the-art back-in controls  18 or not. Perhaps another speaker can address  19 that question as well. But that may be an  20 effective dividing line right there. Thank  21 you.  22 CHAIRMAN HONIGBERG: Commissioner  23 Scott.  24 CMSR. SCOTT: Thank you for your</p> <p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 19</p> <p>1 comments. You mentioned the potential for dry  2 chips to be pneumatically delivered. It raised  3 a question in my mind: Can the same,  4 potentially the same delivery truck, pneumatic  5 delivery truck, do pellets and/or wood chips?  6 MR. NIEBLING: The gentleman from  7 Froling Energy may be able to speak to that  8 based on direct company experience. I can't  9 answer that.  10 CMSR. SCOTT: He's shaking his head  11 "yes," but I'll wait for him to talk. No?  12 Yes, maybe, I think. Thank you.  13 And my other question was, I was  14 a little bit unclear where you landed on the  15 requirements for T REC eligibility. So, were  16 you supporting it? Or were you saying there's  17 a hole here, and perhaps we don't do it? I  18 didn't quite get your punch line.  19 MR. NIEBLING: I believe it's  20 appropriate for the PUC to require recipients  21 of commercial and industrial rebates to take  22 steps to qualify their systems for REC  23 eligibility. That fulfills the purpose of  24 362-F and the intent behind the Renewable</p> <p style="text-align: right;">Page 20</p> <p>1 Energy Fund. I just think 200,000, I think you  2 need to raise that to half a million Btu,  3 150 KW. I think that's a dividing line above  4 which the administrative and compliance costs  5 to participate in the program justify the -- or  6 are offset by the revenue potential from the  7 program, and below that it's a stretch.  8 CMSR. SCOTT: Thank you.  9 CHAIRMAN HONIGBERG: The next  10 commenter is Jim Van Valkenburgh. Maybe we'll  11 get the cliff hanger answered right up front.  12 MR. VAN VALKENBURGH: I'm with  13 Froling Energy. And we are, I'd say, the first  14 manufacturers of what we call "PDC." It's a  15 dry chip. And one of the bases of our concept  16 of the dried chip was to be able to blow them  17 into a building and have an interior storage  18 area, perhaps in a basement or perhaps in some  19 other integrated structure, in a different way,  20 where you did not require having a big,  21 expensive infrastructure, such as when you  22 deliver with a semi-truck that has to drop it  23 off in a pit and so forth, like your typical  24 green chip operations. We are --</p> <p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>
---	---

<p style="text-align: right;">Page 21</p> <p>1 (Court Reporter interrupts.)  2 MR. VAN VALKENBURGH: Anyway, so here  3 we are with a -- we're following in the  4 footsteps of northern Austria and other places  5 in Europe where dry chips have really come into  6 their own. And so we're in some ways just  7 mimicking that and saw this opening in the  8 market. We have four customers right now that  9 are using these. Some of them utilize the  10 rebate because they actually started out with  11 pellets because the systems can utilize  12 pellets. If you've got it set up for chips,  13 you can also put pellets in that same system,  14 with minor adjustments of the system. There's  15 a plate that would have to be put into the  16 silo. And these are sweeper-arm type of silos  17 instead of just funnel-type silos. But that's  18 a major distinction. And then another one is  19 in the boiler settings itself. You just have  20 to make sure that it is able to adjust itself  21 for the moisture content.  22 As far as the trucking goes, a  23 pellet truck cannot deliver dry chips, but a  24 dry chip truck can deliver pellets. So that</p> <p style="text-align: right;">Page 22</p> <p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 23</p> <p>1 infrastructure, even the businesses themselves,  2 had not thought about investing in this sort of  3 thing. And then, when this stimulus package  4 came along with the rebates, it was a very  5 positive development for the whole pellet  6 business, and we were very happy with that. It  7 got us established to be able to even think of  8 doing the dried chips.  9 So, again, a great round of  10 appreciation on good planning and good  11 execution on this program. We like the idea  12 that it's being expanded dollars-wise, and  13 everything that you said here I agree with. I  14 should say all the points that the Staff has  15 recommended here, we recommend as well. And we  16 feel that a lot of the comments Charlie made  17 here about the small boiler systems being  18 really below 500,000, I tend to agree with that  19 as well. But that's another debate.  20 The idea of including dry chips  21 in this program, I wouldn't want it to slow  22 down the update of this funding, this increase  23 in the funding, but I do like the idea, and I  24 think it's a matter of defining things.</p> <p style="text-align: right;">Page 24</p> <p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>
<p>1 distinction might be interesting for future  2 developments where you might want to have a  3 business that could chip either one. Some  4 pellet boilers can burn the chips, but a lot of  5 them cannot. They're smaller, and they're just  6 not set up for that sort of thing. But it  7 seems like most of the boilers in that 500,000  8 Btu range and up can burn a dry chip. And they  9 burn them very efficiently, and they do meet  10 the standard. The bigger you go from that  11 area, it becomes a little more challenging for  12 these boilers to meet that emission particulate  13 criteria. But we do have boilers today that  14 can do this, and we're installing them and very  15 successfully operating them. So, I hope that  16 clears that point up.  17 And my comment on the dry chips  18 is we didn't expect people to be commenting  19 positively on this, and we're very happy that  20 they are. We find this is an important fuel,  21 and we also see that it's at the point that  22 pellets were not too many years ago, where  23 there weren't really many pellet trucks that  24 could deliver pneumatically. And the</p> <p style="text-align: right;">Page 25</p> <p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p>1 We do have this product -- and  2 Charlie's right. I don't know that we  3 necessarily have it trademarked, except that  4 just by example we've been out in the market  5 with this. But we do have -- the PDC idea --  6 our idea is this is a defined product. It's  7 not just a chip that is something. It is a  8 number of definitional steps that we like to  9 take. And it's also quality control. We have  10 people on staff that are testing this, just  11 like they do at a pellet plant, just to make  12 sure that it comes out the way it's supposed to  13 come out when it gets to the site where it's  14 being burned. So that's something I think we  15 want to think about. There's definitions that  16 we want to be sure that we would cover and  17 really that -- we like 25 percent moisture.  18 That's where we find it's the most stable. But  19 we'll say under 30 percent is perfectly fine  20 for a generic description of the product. And  21 we'd like to -- we also re-chip or take in  22 chips. But we take in chips and then chip them  23 down to about the size of a matchbook, a  24 traditional, old paper matchbook. That's</p> <p style="text-align: right;">Page 26</p> <p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>

<p style="text-align: right;">Page 25</p> <p>1 really about the maximum size we like to see.  2 And that's because if we blow it into a  3 five-inch pipe a hundred feet, we don't want it  4 to be hung up by something that looks more like  5 a ruler or something on that order. So we have  6 to make sure that it does that. Plus, the  7 boilers themselves are not set up to have odd  8 sizes. So, this is a definition of a product  9 there. It's a fuel product, just the way  10 pellets have defined themselves very, very  11 well. This is something that needs to be done.  12 So, to jump into it real  13 quickly, we'd love to consult with you if you'd  14 like to know more about what PDCs are and how  15 we would define the marketplace. We'd very  16 much like to get involved in that, and we'd do  17 that tomorrow if you needed us to. But at this  18 point, again, I hate to see it slow down this  19 particular program. I think that's about it  20 right now. I can't think of any other issues  21 that were stated here.  22 CHAIRMAN HONIGBERG: Commissioner  23 Scott.  24 CMSR. SCOTT: Thank you for your</p> <p style="text-align: right;">Page 26</p> <p>1 comments. I just want to hear your reaction.  2 I'm wondering, if we were to add dried wood  3 chips, do we have to -- how important would it  4 really be to define in detail what the chip is,  5 given that I think what I've heard, and based  6 on the history of this program so far, we were  7 trying to incent the delivery system. I think  8 we've already discussed between now and -- I  9 know you weren't at the 1:00 hearing -- but to  10 meet the emission standards, with my  11 background, I don't believe wet chips are going  12 to meet the emission standards, anyways. I  13 just wonder if something as simple as saying  14 "dried chips" would -- some small elaboration  15 may not be sufficient. I just hate to see us  16 spend a whole lot of time on being very  17 descriptive on what a chip is. But I'm just  18 curious as to your reaction to that.  19 MR. VAN VALKENBURGH: You're right.  20 I mean, it's just a matter of making sure that  21 everybody's in agreement. And we're pretty  22 open to your definition. I think, again, it's  23 kind of self-defining by your .01 percent and  24 so forth, the dryness factor. The size</p>	<p style="text-align: right;">Page 27</p> <p>1 probably doesn't matter, as long as the boiler  2 itself is able to deal with that. So if  3 somebody could come up with a boiler that deals  4 with bigger chips and does them well, I suppose  5 we wouldn't care if that was the case. We're  6 reacting to a very specific set of  7 circumstances that we've been confronted with  8 lately. And anything's possible. So I think  9 you're right; under 30 percent might be a smart  10 way to go.  11 CMSR. SCOTT: Thank you.  12 CHAIRMAN HONIGBERG: Our next  13 commenter, first name is Ted. Last name may be  14 Fontino?  15 MR. FOUNTAIN: How about a guy named  16 Fountain?  17 CHAIRMAN HONIGBERG: Fountain.  18 MR. FOUNTAIN: Sorry about that,  19 Chairman.  20 Thank you, Chairman and  21 Committee. Our company, New Day Energy, is a  22 specialist alternative energy installation  23 contractor. We specialize also in biomass  24 installations of modern pellet heating</p> <p style="text-align: right;">Page 28</p> <p>1 equipment.  2 I think I'd like to make the  3 comment today that I concur, and our company  4 endorses what the Staff has recommended to the  5 Commission for the increase in the rebate  6 program. Since our company's inception and  7 involvement in the biomass industry, the rebate  8 has been very helpful in the reluctance in the  9 market to adopt these types of European  10 technologies. So, as the oil prices I think  11 were the key moving fact in us looking into an  12 increase in the rebate, I'd like to just draw  13 back to that in particular, in that the market  14 itself is somewhat reluctant to continue  15 pushing ahead, residually and commercially,  16 with these adoption -- adopting of these  17 systems because of the price of oil. So, an  18 increase in the rebate value would be  19 instrumental and very good for us to see a  20 continuation of installations. And I think I  21 like the comment made earlier, that these  22 larger systems are anchor systems. You know,  23 they use a larger volume of fuel, and so they  24 provide a point in the map for other</p>
<p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p>{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>

Page 29	Page 31
<p>1 installations nearby to look to. And so we  2 really think that continuing the process of  3 seeing this equipment being adopted is going to  4 require the rebate to kind of follow suit with  5 what the oil prices have done. So we think  6 this is a really smart move to keep things  7 flowing and keep the waters from becoming  8 murky, if you will, and slowing the boat down.  9 I agree that the chips -- I'd  10 like to make this comment also, that the chips  11 themselves are a great addition, and I really  12 feel it's a great product, and I like that it's  13 a defined product. But again, I would like to  14 just say that the idea of slowing down the  15 adoption of these Staff recommendations would  16 be, I don't know if "detrimental" is the right  17 word, but it would certainly slow down this  18 season. So we really see that the adoption of  19 these rebate value increases and changes would  20 certainly make this season worthwhile. If we  21 had to wait too long, it would just be too  22 difficult. That's it. Thank you.  23 CHAIRMAN HONIGBERG: Last person who  24 has signed the sheet is Laura Richardson, and</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p>1 able to roll out some new marketing materials,  2 new announcements saying that, you know, hey,  3 the rebate has gone up. And that's a way to  4 get back on people's radars. I think that will  5 be helpful for the market. So I applaud that  6 tremendously.  7 I also really like the idea of  8 the financial support for the REC metering. I  9 think that's a great idea, and that's part of  10 the transformation that the market needs to  11 have. I do agree with Mr. Niebling and think  12 that, you know, it is going to be really  13 difficult for a lot of the smaller systems to  14 be REC-eligible, and that perhaps raising that  15 threshold a little bit to start out would be a  16 good thing, and maybe in two years, or whenever  17 the Staff revisits this issue, that maybe at  18 that point they tighten things up a little  19 more, depending on how that metering equipment,  20 how the aggregation services, the monitoring  21 services, how all of that is maturing. But I  22 think it's good to really encourage that REC  23 metering.  24 I am a little concerned about</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>
Page 30	Page 32
<p>1 she was the "maybe." Ms. Richardson, would you  2 like to speak?  3 MS. RICHARDSON: I would. Thank you  4 very much.  5 CHAIRMAN HONIGBERG: I thought you  6 might.  7 MS. RICHARDSON: Well, this is one of  8 my favorite topics, so I'm delighted to share  9 some insight. Thank you, Mr. Commissioner and  10 members of the Commission. My name is Laura  11 Richardson. I'm the Executive Director of the  12 Jordan Institute, and I've been tangentially  13 involved in the pellet program since its  14 inception back in the 2009-2010 time frame.  15 So I do have some comments about  16 the recent recommendations from the Staff and  17 heartily support pretty much all of the content  18 in their recommendation. I'm delighted about  19 the 40 percent increase and the increase in the  20 cap. I do think that Staff is monitoring the  21 situation with the fluctuating cost of fossil  22 fuels, and this step is warranted at this time.  23 I do also think that for the  24 market it will be a good thing for them to be</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p>1 quality control issues related to dried chips.  2 And I'm not at all concerned about Froling. I  3 know they do a terrific job with their products  4 and the attention to detail. But when new  5 market actors enter the scene, it may be really  6 hard for Staff to oversee the quality control  7 of what's really going on out there, as far as  8 the systems, as far as the fuel that's being  9 used and what ramifications may come of that.  10 So it might be good just to sit and again  11 revisit this question in a year or two.  12 And I would concur with a number  13 of other speakers, that, you know, let's move  14 this along as quickly as possible. You have a  15 tremendous workload in front of you this summer  16 with a lot of really important dockets. This  17 is right up there with them. Construction  18 season is in full swing right now, and if this  19 docket can be expedited, I think that would be  20 terrific. I think a lot of projects would  21 reconsider using these systems that have  22 currently shifted to some other kind of system.  23 So, those are my comments. I'm  24 quite grateful for the opportunity and thank</p> <p style="text-align: center;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>

<p style="text-align: right;">Page 33</p> <p>1 you for considering them.</p> <p>2 CHAIRMAN HONIGBERG: All right. Ms.</p> <p>3 Richardson was the last person signed up to</p> <p>4 speak. Is there anyone else who would like to</p> <p>5 offer oral comments at this time?</p> <p>6 [No verbal response]</p> <p>7 CHAIRMAN HONIGBERG: All right. If</p> <p>8 not -- Mr. Henry, I had a feeling maybe you</p> <p>9 couldn't resist. I was a little surprised when</p> <p>10 the hand didn't shoot up. Briefly, if you</p> <p>11 would like to continue.</p> <p>12 MR. HENRY: Very briefly, I just want</p> <p>13 to make a point about the 150-kilowatt systems</p> <p>14 and the T RECs. I think it's perfectly</p> <p>15 appropriate, as Mr. Dresser mentioned, in the</p> <p>16 residential market, that these systems qualify</p> <p>17 for T RECs. But if we had a simpler system, a</p> <p>18 la residential, to count the T RECs up to the</p> <p>19 150-kilowatt system level, that would be</p> <p>20 easier. And I think the amounts of fuel that</p> <p>21 are being used are going to be comparatively</p> <p>22 small. And just basing the T RECs generated</p> <p>23 out of the value from the fuel consumed would</p> <p>24 be a simple way to do that. Thank you.</p> <p style="text-align: right;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 35</p> <p>1 can help them along. So I think it's okay to</p> <p>2 have the RECs down to those lower levels. And</p> <p>3 I'm not sure if you need to loosen up the</p> <p>4 standard or not, as far as the metering itself.</p> <p>5 I'm not sure how you would do that in an</p> <p>6 effective way.</p> <p>7 Just one other thing on the</p> <p>8 impact of RECs. And I look at it in a real</p> <p>9 simple way: I like to compare everything right</p> <p>10 down to a gallon of fuel oil. And what I see</p> <p>11 is pellets right now are about \$2 a gallon on a</p> <p>12 typical burn basis. So, how many -- basically</p> <p>13 you say at the end of the year, how many</p> <p>14 gallons of oil would I have burned and how much</p> <p>15 dollar value of either pellets or chips did I</p> <p>16 burn, and I divide that by the number of</p> <p>17 gallons that that's equivalent to. And it ends</p> <p>18 up to be about \$1.50 a gallon when you've got</p> <p>19 RECs applied to pellets. And if you've got the</p> <p>20 PDCs, or the chips, at the \$120 a ton level,</p> <p>21 you actually are about \$1.38, \$1.40, say,</p> <p>22 without RECs, and with RECs, 80 cents a gallon.</p> <p>23 Very high impact information. And there's</p> <p>24 not -- there's nobody buying oil at 80 cents a</p> <p style="text-align: right;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>
<p style="text-align: right;">Page 34</p> <p>1 CHAIRMAN HONIGBERG: All right.</p> <p>2 Anyone else who would like add anything? Yes,</p> <p>3 Mr. Van Valkenburgh.</p> <p>4 MR. VAN VALKENBURGH: Yes, just on</p> <p>5 that point. We've put in some meters on one of</p> <p>6 Dutch's boilers -- as a matter of fact, two of</p> <p>7 them in the town of Hollis. And they went and</p> <p>8 bought the meters and so forth. But the meters</p> <p>9 are basically the same, whether you've got a</p> <p>10 giant system or a tiny system. So, that \$5,000</p> <p>11 on a commercial system is right on, I think.</p> <p>12 You know, you might find some cheaper meters,</p> <p>13 but they need to be quality meters, and</p> <p>14 somebody needs to verify them. I know you have</p> <p>15 a real need to have verification on this, and I</p> <p>16 wouldn't want you to short that. I'm not</p> <p>17 exactly sure if there's an easy way around it,</p> <p>18 but I will say that it is cost-effective in the</p> <p>19 end, especially if you pay for the meter.</p> <p>20 These people are getting volunteers or they're</p> <p>21 doing various things. It's a very confusing</p> <p>22 process to get established into RECs. But on</p> <p>23 the other hand, when you get some experienced</p> <p>24 companies finally, we get that experience and</p> <p style="text-align: right;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>	<p style="text-align: right;">Page 36</p> <p>1 gallon right now. And that's a New Hampshire</p> <p>2 fuel that can be produced in many sectors of</p> <p>3 this state by different companies. And it's</p> <p>4 just a matter of really getting that going, I</p> <p>5 think. And again, those are for larger</p> <p>6 systems. Ten thousand gallons is the absolute</p> <p>7 minimum to justify the extra expenses, so we</p> <p>8 see. So, just know that most of ours are one</p> <p>9 million Btu's, two million Btu's and up with</p> <p>10 the dried chips.</p> <p>11 CHAIRMAN HONIGBERG: Thank you. Is</p> <p>12 there anyone else who wishes to add anything at</p> <p>13 this time?</p> <p>14 [No verbal response]</p> <p>15 CHAIRMAN HONIGBERG: I'll remind</p> <p>16 everyone that we will take written comments</p> <p>17 until the end of next week.</p> <p>18 Mr. Wiesner, you look like</p> <p>19 you're pulling that microphone towards you.</p> <p>20 MR. WIESNER: I apologize, Mr.</p> <p>21 Chairman. I just wanted to note that during</p> <p>22 the residential hearing we heard a couple folks</p> <p>23 make an argument that there ought to be a</p> <p>24 retroactive effect for the rebate incentive</p> <p style="text-align: right;">{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}</p>

1 increase. And I'm not sure whether there's a  
2 similar sentiment for this program, but I just  
3 wanted to raise that.

4 [No verbal response]

5 MR. WIESNER: I guess not.

6 CHAIRMAN HONIGBERG: Seems like not.

7 All right. Then we will close the public  
8 comment hearing and invite you to submit your  
9 written comments by the end of next week, and  
10 we will an issue order on this as quickly as we  
11 can. Thank you all.

12 (Whereupon the Public Comment Hearing  
13 adjourned at 2:55 p.m.)

14

15

16

17

18

19

20

21

22

23

24

{DE 13-298} [PUBLIC COMMENT HEARING] {06-03-16}

		HEATING SYSTEMS		
	18:18	apologies (1)	35:12	23:1
\$	adjourned (1)	17:8	become (2)	buying (1)
	37:13	apologize (1)	5:9;6:3	35:24
\$1.38 (1)	adjust (1)	36:20	becomes (1)	
35:21	21:20	appear (1)	22:11	C
\$1.40 (1)	adjustments (1)	4:9	becoming (1)	
35:21	21:14	applaud (1)	29:7	call (1)
\$1.50 (1)	administrative (2)	31:5	behind (1)	20:14
35:18	16:10;20:4	applicable (1)	19:24	came (1)
\$120 (2)	adopt (2)	3:8	below (2)	23:4
9:24;35:20	13:4;28:9	applications (1)	20:7;23:18	can (24)
\$2 (1)	adopted (1)	4:4	beneficial (1)	6:14;9:7;10:3,21;
35:11	29:3	applied (1)	8:6	11:17;12:1,3;13:17;
\$240 (1)	adopting (1)	35:19	Bernstein (1)	15:5;17:24;18:1,15,18;
9:23	28:16	appreciation (1)	3:19	19:3;21:11,13,24;22:4,
\$350,000 (1)	adoption (3)	23:10	beyond (1)	8,14;32:19;35:1;36:2;
12:17	28:16;29:15,18	appropriate (3)	13:6	37:11
\$5,000 (2)	advantage (2)	6:16;19:20;33:15	big (1)	Cap (2)
5:12;34:10	7:11;9:19	approved (1)	20:20	12:18;30:20
\$65,000 (1)	advantageous (1)	17:2	bigger (3)	capability (2)
4:15	14:12	area (3)	18:11;22:10;27:4	9:4,18
[	afternoon (1)	12:13;20:18;22:11	biomass (2)	care (1)
	3:2	argument (1)	27:23;28:7	27:5
[No (3)	again (14)	36:23	bit (2)	case (3)
33:6;36:14;37:4	4:23;5:23;7:7;8:8;	around (3)	19:14;31:15	5:3;12:8;27:5
	10:22;11:23;12:7,20;	9:5;15:18;34:17	blow (2)	Center (1)
	23:9;25:18;26:22;	assist (2)	20:16;25:2	7:19
A	29:13;32:10;36:5	5:10,12	boat (1)	Central (2)
	aggregation (1)	assistance (1)	29:8	3:6;12:8
able (9)	31:20	15:7	boiler (7)	cents (2)
7:11;12:5;17:14;	ago (2)	attention (1)	10:2,13;14:2;21:19;	35:22,24
19:7;20:16;21:20;23:7;	7:4;22:22	32:4	23:17;27:1,3	certain (1)
27:2;31:1	agree (5)	attorney (1)	boilers (12)	5:17
above (2)	15:1;23:13,18;29:9;	3:18	4:1;9:17;10:5;12:12,	certainly (2)
5:7;20:3	31:11	Austria (1)	17:18;15:22;4,7,12,13;	29:17,20
absolute (1)	agreement (1)	21:4	25:7;34:6	certification (2)
36:6	26:21	automatically (1)	both (1)	15:23;16:16
accept (1)	ahead (1)	4:18	9:18	certified (2)
10:3	28:15	avoid (1)	bought (1)	8:3;15:10
accepting (1)	almost (1)	17:16	34:8	CHAIRMAN (26)
3:13	15:4		brief (1)	3:2,18;6:19;7:15;
achieving (1)	along (3)	B	7:3	8:19,21;13:1;14:16,19;
5:11	23:4;32:14;35:1		briefly (3)	17:4;18:22;20:9;25:22;
acronym (1)	alternative (1)	back (7)	3:16;33:10,12	27:12,17,19,20;29:23;
17:15	27:22	4:24;6:22;11:13,18;	Btu (5)	30:5;33:2,7;34:1;
actors (1)	amorphous (1)	28:13;30:14;31:4	5:7;15:9;18:15;20:2;	36:11,15,21;37:6
32:5	15:20	background (1)	22:8	challenging (1)
actually (2)	amounts (1)	26:11	Btu's (8)	22:11
21:10;35:21	33:20	back-in (1)	6:12;9:22,23;10:1,	change (1)
add (3)	anchor (2)	18:17	24:16;6;36:9,9	4:22
26:2;34:2;36:12	8:11;28:22	Barbara (2)	building (1)	changed (3)
added (1)	and/or (2)	3:19;16:24	20:17	5:2,22;7:3
13:24	9:18;19:5	based (3)	Bulk-Fed (1)	changes (2)
adder (4)	announcements (1)	4:6;19:8;26:5	3:5	8:6;29:19
5:12;8:4;15:2;16:17	31:2	basement (1)	burn (5)	characterized (2)
adders (1)	answered (1)	20:18	22:4,8,9;35:12,16	4:13,16
5:5	20:11	bases (1)	burned (2)	Charles (1)
addition (5)	anything's (1)	20:15	24:14;35:14	14:20
5:20,23;7:13;12:14;	27:8	basically (3)	burning (2)	Charlie (2)
29:11	anyways (1)	16:3;34:9;35:12	9:18;18:12	14:17;23:16
additional (1)	26:12	basing (1)	business (2)	Charlie's (1)
15:2	apiece (1)	33:22	22:3;23:6	24:2
address (1)	12:17	basis (1)	businesses (1)	cheaper (1)

		HEATING SYSTEMS		
34:12	<b>Commission (6)</b>	28:14;33:11	27:2	<b>developments (1)</b>
<b>chip (25)</b>	4:24;8:22;14:19;	<b>continued (1)</b>	<b>deals (1)</b>	22:2
9:19;10:13,14,19,21;	15:13;28:5;30:10	8:13	27:3	<b>Dick (2)</b>
13:11,16,20,24;14:14;	<b>Commissioner (5)</b>	<b>continuing (2)</b>	<b>debate (1)</b>	8:20,22
17:19,23;18:9,10,14;	13:1;17:21;18:22;	5:24;29:2	23:19	<b>different (2)</b>
20:15,16,24;21:24;	25:22;30:9	<b>contractor (1)</b>	<b>decrease (2)</b>	20:19;36:3
22:3,8;24:7,22;26:4,17	<b>Committee (1)</b>	27:23	5:1;6:10	<b>difficult (3)</b>
<b>chipped (1)</b>	27:21	<b>contrasted (1)</b>	<b>define (2)</b>	8:16;29:22;31:13
14:5	<b>companies (2)</b>	5:3	25:15;26:4	<b>direct (2)</b>
<b>chipper (1)</b>	34:24;36:3	<b>control (3)</b>	<b>defined (3)</b>	17:5;19:8
14:3	<b>company (3)</b>	24:9;32:1,6	24:6;25:10;29:13	<b>Director (1)</b>
<b>chips (42)</b>	19:8;27:21;28:3	<b>controls (3)</b>	<b>defining (1)</b>	30:11
5:19,23;7:13;9:9,13,	<b>company's (1)</b>	13:16,17;18:17	23:24	<b>discussed (1)</b>
19,24;10:9,14,16;	28:6	<b>conventional (2)</b>	<b>definition (4)</b>	26:8
11:22;12:6,23;13:7,22;	<b>comparable (1)</b>	17:23;18:10	9:13;15:4;25:8;	<b>discussions (1)</b>
14:4,9;17:13,23,24,24;	18:2	<b>cost (6)</b>	26:22	4:7
19:2,5;21:5,12,23;22:4,	<b>comparatively (1)</b>	4:15;12:4,17;15:22,	<b>definitional (1)</b>	<b>distinction (3)</b>
17:23;8,20;24:22,22;	33:21	22:30;21	24:8	18:8;21:18;22:1
26:3,11,14;27:4;29:9,	<b>compare (1)</b>	<b>cost-effective (1)</b>	<b>definitions (1)</b>	<b>distribution (4)</b>
10;32:1;35:15,20;	35:9	34:18	24:15	6:2;9:5;14:7,8
36:10	<b>competitive (1)</b>	<b>costs (6)</b>	<b>delighted (2)</b>	<b>district (4)</b>
<b>choose (2)</b>	4:10	10:5;11:24;16:10,19,	30:8,18	8:24;10:6;12:9;17:1
12:21,21	<b>complex (1)</b>	20:20;4	<b>deliver (6)</b>	<b>divide (1)</b>
<b>circle (1)</b>	11:21	<b>count (1)</b>	12:5;18:5;20:22;	35:16
6:22	<b>complexities (1)</b>	33:18	21:23,24;22:24	<b>dividing (3)</b>
<b>circumstances (1)</b>	15:21	<b>couple (1)</b>	<b>delivered (4)</b>	16:5;18:20;20:3
27:7	<b>compliance (2)</b>	36:22	14:4;17:24;18:1;	<b>Division (1)</b>
<b>clears (1)</b>	16:10;20:4	<b>Court (1)</b>	19:2	3:21
22:16	<b>comply (1)</b>	21:1	<b>deliverers (1)</b>	<b>Docket (2)</b>
<b>cliff (1)</b>	5:14	<b>cover (1)</b>	12:1	3:4;32:19
20:11	<b>compromise (1)</b>	24:16	<b>deliveries (3)</b>	<b>dockets (1)</b>
<b>climate (1)</b>	6:4	<b>Crampton (1)</b>	11:9;12:2;15:6	32:16
8:8	<b>concept (2)</b>	3:20	<b>delivering (1)</b>	<b>dollar (1)</b>
<b>close (1)</b>	15:20;20:15	<b>creation (1)</b>	12:7	35:15
37:7	<b>concern (1)</b>	9:13	<b>delivery (6)</b>	<b>dollars (1)</b>
<b>CMSR (8)</b>	6:3	<b>criteria (1)</b>	11:8,19,20;19:4,5;	14:13
13:3,9;14:15;18:24;	<b>concerned (2)</b>	22:13	26:7	<b>dollars-wise (1)</b>
19:10;20:8;25:24;	31:24;32:2	<b>curious (1)</b>	<b>dense (2)</b>	23:12
27:11	<b>concur (2)</b>	26:18	9:8,10	<b>domestic (1)</b>
<b>combined (1)</b>	28:3;32:12	<b>current (2)</b>	<b>density (2)</b>	12:2
16:2	<b>conditions (3)</b>	6:11;9:20	9:6;10:23	<b>done (2)</b>
<b>coming (3)</b>	4:21,22;5:2	<b>currently (1)</b>	<b>depending (1)</b>	25:11;29:5
14:1,2,3	<b>confronted (1)</b>	32:22	31:19	<b>down (11)</b>
<b>comment (9)</b>	27:7	<b>customer (1)</b>	<b>depressed (1)</b>	4:3;9:14;10:15;
3:11;7:21;17:9;	<b>confusing (1)</b>	10:24	4:11	23:22;24:23;25:18;
22:17;28:3,21;29:10;	34:21	<b>customers (1)</b>	<b>describe (1)</b>	29:8,14,17;35:2,10
37:8,12	<b>consider (2)</b>	21:8	17:16	<b>downtown (1)</b>
<b>commenter (2)</b>	4:20;5:18		<b>description (1)</b>	12:13
20:10;27:13	<b>considerably (4)</b>		24:20	<b>draw (2)</b>
<b>commenters (1)</b>	4:3,5,11;16:6	<b>D</b>	<b>descriptive (1)</b>	17:22;28:12
3:15	<b>considering (1)</b>	<b>date (1)</b>	26:17	<b>drawing (1)</b>
<b>commenting (1)</b>	33:1	4:19	<b>detail (2)</b>	15:16
22:18	<b>Construction (1)</b>	<b>Dave (1)</b>	26:4;32:4	<b>Dresser (6)</b>
<b>comments (11)</b>	32:17	3:18	<b>detrimental (1)</b>	6:24;7:1,1,16;8:4;
3:13;17:5,10;19:1;	<b>consult (1)</b>	<b>day (2)</b>	29:16	33:15
23:16;26:1;30:15;	25:13	16:11;27:21	<b>develop (1)</b>	<b>dried (14)</b>
32:23;33:5;36:16;37:9	<b>consumed (1)</b>	<b>days (1)</b>	10:11	5:19;7:13;9:14,18,
<b>Commercial (9)</b>	33:23	10:15	<b>developed (2)</b>	19,24;10:9;17:19;
3:5,23;8:1,17;11:6;	<b>content (3)</b>	<b>DE (1)</b>	13:21;14:10	20:16;23:8;26:2,14;
15:3;17:12;19:21;	18:9;21:21;30:17	3:4	<b>developing (1)</b>	32:1;36:10
34:11	<b>continuation (1)</b>	<b>deadhead (1)</b>	12:9	<b>drier (1)</b>
<b>commercially (1)</b>	28:20	11:13	<b>development (3)</b>	13:15
28:15	<b>continue (2)</b>	<b>deal (1)</b>	6:1;10:2;23:5	<b>drive (1)</b>

10:11 <b>driver (1)</b> 4:1 <b>drop (2)</b> 4:8;20:22 <b>dropped (1)</b> 4:5 <b>dry (20)</b> 9:13;10:13,14,18,21; 11:22;12:6,23;13:7; 17:13,23,24;19:1; 20:15;21:5,23,24;22:8, 17;23:20 <b>drying (2)</b> 10:12;11:3 <b>dryness (1)</b> 26:24 <b>due (1)</b> 4:8 <b>during (2)</b> 10:17;36:21 <b>Dutch (2)</b> 6:24;7:1 <b>Dutch's (1)</b> 34:6	<b>emissions (4)</b> 6:7;13:4,16,17 <b>encourage (2)</b> 12:20;31:22 <b>encouraged (1)</b> 9:16 <b>end (5)</b> 16:24;34:19;35:13; 36:17;37:9 <b>endorse (2)</b> 7:5,9 <b>endorses (1)</b> 28:4 <b>ends (1)</b> 35:17 <b>Energy (15)</b> 3:4,21;7:2;8:24;9:6, 8;10:6,18,23;12:10; 19:7;20:1,13;27:21,22 <b>engineer (1)</b> 15:23 <b>engineers' (1)</b> 16:19 <b>England (1)</b> 14:22 <b>enough (1)</b> 16:9 <b>enter (1)</b> 32:5 <b>equipment (6)</b> 5:13;6:13;7:10;28:1; 29:3;31:19 <b>equity (1)</b> 7:14 <b>equivalent (1)</b> 35:17 <b>especially (1)</b> 34:19 <b>established (2)</b> 23:7;34:22 <b>Europe (1)</b> 21:5 <b>European (1)</b> 28:9 <b>even (4)</b> 12:16;16:16;23:1,7 <b>everybody's (1)</b> 26:21 <b>everyone (2)</b> 3:3;36:16 <b>exactly (1)</b> 34:17 <b>example (1)</b> 24:4 <b>exceedingly (1)</b> 7:2 <b>except (1)</b> 24:3 <b>excuse (1)</b> 6:5 <b>execution (1)</b> 23:11 <b>Executive (1)</b>	HEATING SYSTEMS		34:12 <b>fine (1)</b> 24:19 <b>first (2)</b> 20:13;27:13 <b>five (1)</b> 10:16 <b>five-inch (1)</b> 25:3 <b>flowing (1)</b> 29:7 <b>fluctuating (1)</b> 30:21 <b>folks (1)</b> 36:22 <b>follow (1)</b> 29:4 <b>following (2)</b> 10:20;21:3 <b>Fontino (1)</b> 27:14 <b>footsteps (1)</b> 21:4 <b>Forest (1)</b> 7:19 <b>forgot (1)</b> 13:15 <b>forth (3)</b> 20:23;26:24;34:8 <b>fossil (1)</b> 30:21 <b>FOUNTAIN (4)</b> 27:15,16,17,18 <b>four (3)</b> 10:16;12:11;21:8 <b>frame (1)</b> 30:14 <b>Froling (3)</b> 19:7;20:13;32:2 <b>front (2)</b> 20:11;32:15 <b>fuel (18)</b> 5:4,18,20;6:1;9:7; 11:14;15:2;17:19;18:5, 10:22;20:25;9;28:23; 32:8;33:20,23;35:10; 36:2 <b>fuels (2)</b> 6:3;30:22 <b>fulfills (1)</b> 19:23 <b>full (2)</b> 15:5;32:18 <b>Fund (1)</b> 20:1 <b>funding (2)</b> 23:22,23 <b>funds (1)</b> 14:11 <b>funnel-type (1)</b> 21:17 <b>furnaces (1)</b> 4:1	<b>further (3)</b> 9:16;10:18;11:3 <b>future (1)</b> 22:1
E		G			
earlier (2) 7:20;28:21 easier (1) 33:20 easily (1) 6:14 easy (2) 13:16;34:17 effect (3) 7:21;16:2;36:24 effective (3) 12:5;18:20;35:6 efficiently (1) 22:9 effort (1) 9:1 either (2) 22:3;35:15 elaboration (1) 26:14 electrostatic (1) 18:16 eligibility (3) 5:22;19:15,23 eligible (5) 5:9,18;6:4,14;15:10 else (3) 33:4;34:2;36:12 emerge (1) 11:22 emergency (3) 11:14,16,19 emission (7) 6:5;8:7;13:10;18:13; 22:12;26:10,12	extra (2) 15:7;36:7 eye (1) 4:21	F			
		fact (3) 9:16;28:11;34:6 factor (1) 26:24 fall (1) 10:20 far (6) 9:7;21:22;26:6;32:7, 8;35:4 favor (1) 7:12 favorite (1) 30:8 feel (2) 23:16;29:12 feeling (1) 33:8 feet (1) 25:3 few (2) 7:3,22 filed (1) 3:7 finally (1) 34:24 financial (1) 31:8 find (4) 7:7;22:20;24:18;			
		H			
		half (1) 20:2 Hampshire (2) 15:23;36:1 hand (2) 33:10;34:23 hanger (1) 20:11 happy (2) 22:19;23:6 hard (1)			

**Public Comment Hearing - June 3, 2016**  
**DE 13-298 RENEWABLE ENERGY INCENTIVE PROGRAM FOR C & I BULK FUEL-FED WOOD PELLET CENTRAL**

11:6 <b>Massachusetts (1)</b> 6:10 <b>matchbook (2)</b> 24:23,24 <b>material (1)</b> 4:22 <b>materials (1)</b> 31:1 <b>matter (6)</b> 6:7;23:24;26:20; 27:1;34:6;36:4 <b>maturing (1)</b> 31:21 <b>maximum (2)</b> 4:15;25:1 <b>May (10)</b> 3:7;16:23;17:14; 18:3;19;19:7;26:15; 27:13;32:5,9 <b>maybe (7)</b> 6:21;19:12;20:10; 30:1;31:16;17;33:8 <b>mean (3)</b> 14:3;16:13;26:20 <b>meaningful (1)</b> 16:3 <b>means (1)</b> 16:15 <b>measurement (1)</b> 5:15 <b>mechanism (1)</b> 4:17 <b>meet (7)</b> 6:14;13:12;18:15; 22:9;12;26:10,12 <b>members (3)</b> 8:22;14:19;30:10 <b>Memorandum (1)</b> 3:7 <b>mentioned (3)</b> 11:4;19:1;33:15 <b>meter (1)</b> 34:19 <b>metering (11)</b> 5:13;7:10;8:4;15:18, 18,22,22;31:8,19,23; 35:4 <b>meters (7)</b> 15:24;16:17;34:5,8, 8,12,13 <b>microphone (1)</b> 36:19 <b>middle (1)</b> 17:1 <b>might (8)</b> 4:10;11:22;22:1,2; 27:9;30:6;32:10;34:12 <b>mill (1)</b> 12:10 <b>million (8)</b> 6:12;9:21,23;10:1; 18:15;20:2;36:9,9	<b>mimicking (1)</b> 21:7 <b>mind (1)</b> 19:3 <b>minimum (1)</b> 36:7 <b>minor (1)</b> 21:14 <b>minutes (1)</b> 7:4 <b>modern (1)</b> 27:24 <b>modifications (2)</b> 3:10,23 <b>moisture (6)</b> 9:9,14;12:23;18:9; 21:21;24:17 <b>moment (1)</b> 9:20 <b>momentum (2)</b> 8:13,13 <b>monitor (2)</b> 4:20;16:20 <b>monitoring (2)</b> 30:20;31:20 <b>months (1)</b> 10:16 <b>more (17)</b> 6:8;7:10;8:13;9:17; 10:10,11,24;11:20; 12:4;13:4,16;14:12; 17:17;22:11;25:4,14; 31:19 <b>most (5)</b> 6:13;9:1;22:7;24:18; 36:8 <b>move (3)</b> 13:5;29:6;32:13 <b>moving (1)</b> 28:11 <b>much (7)</b> 7:3;11:20;13:19; 25:16;30:4,17;35:14 <b>murky (1)</b> 29:8	20:2;34:13,15;35:3 <b>needed (1)</b> 25:17 <b>needs (5)</b> 11:17;13:21;25:11; 31:10;34:14 <b>networks (1)</b> 6:2 <b>new (8)</b> 9:15;14:21;15:23; 27:21;31:1,2;32:4;36:1 <b>Next (6)</b> 8:19;14:16;20:9; 27:12;36:17;37:9 <b>Niebling (8)</b> 14:17,18,20;17:4,7; 19:6,19;31:11 <b>nobody (1)</b> 35:24 <b>nor (1)</b> 4:18 <b>Northern (2)</b> 7:19;21:4 <b>note (1)</b> 36:21 <b>noted (1)</b> 3:22 <b>notion (1)</b> 7:9 <b>nowhere (1)</b> 17:1 <b>number (5)</b> 3:9;4:3;24:8;32:12; 35:16	<b>one (14)</b> 6:21;8:5;9:3,10; 12:16;13:14;17:20; 20:15;21:18;22:3;30:7; 34:5;35:7;36:8 <b>only (1)</b> 11:1 <b>open (1)</b> 26:22 <b>opening (2)</b> 5:18;21:7 <b>operating (2)</b> 10:4;22:15 <b>operations (1)</b> 20:24 <b>opportunity (1)</b> 32:24 <b>oral (1)</b> 33:5 <b>order (4)</b> 5:10;6:23;25:5; 37:10 <b>otherwise (1)</b> 4:10 <b>ought (1)</b> 36:23 <b>ours (1)</b> 36:8 <b>out (16)</b> 10:21;11:9,16;12:3; 13:20;14:1,2,3;21:10; 24:4,12,13;31:1,15; 32:7;33:23 <b>over (2)</b> 4:5;15:9 <b>oversee (1)</b> 32:6 <b>own (2)</b> 8:12;21:6 <b>owners (1)</b> 16:21	<b>past (1)</b> 4:6 <b>pay (1)</b> 34:19 <b>PDC (3)</b> 17:15;20:14;24:5 <b>PDCs (2)</b> 25:14;35:20 <b>Pellet (15)</b> 3:6,24;4:9;6:1;12:1; 14:22;18:3,7;21:23; 22:4,23;23:5;24:11; 27:24;30:13 <b>pellets (18)</b> 5:20,23;8:12;9:8,18, 22,22;13:6;19:5;21:11, 12,13,24;22:22;25:10; 35:11,15,19 <b>people (6)</b> 3:11;6:20;7:11; 22:18;24:10;34:20 <b>people's (1)</b> 31:4 <b>per (6)</b> 5:7,12;6:11;9:21; 10:24;18:15 <b>percent (11)</b> 4:14;9:14,21;10:10; 12:22;13:23;24:17,19; 26:23;27:9;30:19 <b>percentage (1)</b> 10:20 <b>percent-plus (1)</b> 9:9 <b>perfectly (2)</b> 24:19;33:14 <b>performance (1)</b> 12:22 <b>perhaps (6)</b> 6:4;18:18;19:17; 20:18,18;31:14 <b>permit (1)</b> 5:22 <b>person (2)</b> 29:23;33:3 <b>pipe (1)</b> 25:3 <b>pit (1)</b> 20:23 <b>place (2)</b> 6:9;9:11 <b>places (1)</b> 21:4 <b>planning (1)</b> 23:10 <b>plant (1)</b> 24:11 <b>plants (1)</b> 18:12 <b>plate (1)</b> 21:15 <b>Please (1)</b> 3:3	
		<b>O</b>			
		<b>objective (1)</b> 9:2 <b>objectives (1)</b> 9:3 <b>observation (2)</b> 4:2;8:8 <b>obvious (1)</b> 9:6 <b>odd (1)</b> 25:7 <b>off (2)</b> 11:11;20:23 <b>offer (1)</b> 33:5 <b>offset (2)</b> 16:9;20:6 <b>often (1)</b> 10:13 <b>oil (13)</b> 4:8,21,23;11:7,8,16, 18;28:10,17;29:5; 35:10,14,24 <b>old (1)</b> 24:24 <b>Once (1)</b> 7:7			
		<b>N</b>			
		<b>name (5)</b> 7:14;8:22;27:13,13; 30:10 <b>named (1)</b> 27:15 <b>Natural (1)</b> 14:21 <b>nearby (2)</b> 11:17;29:1 <b>necessarily (2)</b> 18:4;24:3 <b>necessary (1)</b> 15:3 <b>need (7)</b> 13:9;14:10;15:7;			
			<b>P</b>		
			<b>package (2)</b> 3:23;23:3 <b>paper (1)</b> 24:24 <b>part (1)</b> 31:9 <b>participate (1)</b> 20:5 <b>participation (2)</b> 15:10;16:4 <b>particular (7)</b> 6:2;8:10;13:7,10; 17:18;25:19;28:13 <b>particularly (2)</b> 7:8;8:17 <b>particulate (2)</b> 6:7;22:12 <b>partner (1)</b> 14:20		

		HEATING SYSTEMS		
<b>Plus (1)</b> 25:6	<b>Program (18)</b> 3:5,24;4:5;5:4,6,16; 6:6;15:11;16:5;20:5,7; 23:11,21;25:19;26:6; 28:6;30:13;37:2	<b>22:8</b>	<b>reduced (1)</b> 4:18	<b>result (1)</b> 4:12
<b>pm (1)</b> 37:13	<b>projects (2)</b> 16:8;32:20	<b>rather (4)</b> 7:19;14:13;16:21; 17:5	<b>refined (3)</b> 17:13,19,23	<b>retroactive (1)</b> 36:24
<b>pneumatic (1)</b> 19:4	<b>propose (1)</b> 4:24	<b>reacting (1)</b> 27:6	<b>reflect (2)</b> 5:1;6:17	<b>revenue (1)</b> 20:6
<b>pneumatically (4)</b> 18:1,6;19:2;22:24	<b>proposed (2)</b> 5:5;12:24	<b>reaction (2)</b> 26:1,18	<b>regarding (1)</b> 14:24	<b>revisit (3)</b> 15:14,17;32:11
<b>point (8)</b> 13:14;22:16,21; 25:18;28:24;31:18; 33:13;34:5	<b>proposing (6)</b> 3:22;4:12;5:8,11,21; 6:7	<b>real (5)</b> 11:5,16;25:12;34:15; 35:8	<b>related (2)</b> 9:7;32:1	<b>revisits (1)</b> 31:17
<b>points (2)</b> 13:14;23:14	<b>provide (2)</b> 3:11;28:24	<b>reality (1)</b> 6:17	<b>relatively (2)</b> 9:8,15	<b>Richardson (6)</b> 29:24;30:1,3,7,11; 33:3
<b>positive (1)</b> 23:5	<b>public (4)</b> 3:11,15;37:7,12	<b>really (20)</b> 10:1;12:20;13:9; 21:5;22:23;23:18; 24:17;25:1;26:4;29:2; 6,11,18;31:7,12,22; 32:5,7,16;36:4	<b>relevant (1)</b> 16:11	<b>right (24)</b> 6:19;7:7;10:12; 13:19,22;14:9;18:20; 20:11;21:8;24:2;25:20; 26:19;27:9;29:16; 32:17,18;33:2,7;34:1, 11;35:9,11;36:1,37:7
<b>positively (1)</b> 22:19	<b>PUC (4)</b> 15:14,24;17:3;19:20	<b>reason (1)</b> 17:20	<b>reluctance (1)</b> 28:8	<b>roll (1)</b> 31:1
<b>possible (2)</b> 27:8;32:14	<b>pulling (1)</b> 36:19	<b>rebate (25)</b> 3:24;4:5;5:5;6:14; 8:1,4,24;9:12;10:9; 11:1;12:15,24;14:12, 24;15:2;17:13;21:10; 28:5,7,12,18;29:4,19; 31:3;36:24	<b>remind (1)</b> 36:15	<b>round (1)</b> 23:9
<b>potential (4)</b> 8:10;10:17;19:1; 20:6	<b>punch (1)</b> 19:18	<b>rebates (3)</b> 8:17;19:21;23:4	<b>reminder (1)</b> 17:8	<b>RPS (2)</b> 15:11;16:4
<b>potentially (3)</b> 10:3;11:21;19:4	<b>purpose (1)</b> 19:23	<b>REC (7)</b> 5:15;15:11;16:5; 19:15,22;31:8,22	<b>Renewable (2)</b> 3:4;19:24	<b>ruler (1)</b> 25:5
<b>pounds (2)</b> 6:11;18:15	<b>push (1)</b> 11:2	<b>received (1)</b> 4:4	<b>reopens (1)</b> 15:13	<b>rules (4)</b> 5:14;15:14,19;16:1
<b>power (1)</b> 18:11	<b>pushing (1)</b> 28:15	<b>receiving (1)</b> 16:24	<b>repeat (1)</b> 7:20	<b>run (2)</b> 10:13;11:16
<b>precipitator (1)</b> 18:16	<b>put (5)</b> 12:11;14:12;21:13, 15:34:5	<b>REC-eligible (4)</b> 8:3;16:13,15;31:14	<b>Reporter (1)</b> 21:1	<b>S</b>
<b>precludes (1)</b> 16:3	<b>Q</b>	<b>recent (1)</b> 30:16	<b>representing (1)</b> 14:21	
<b>preempt (1)</b> 7:12		<b>re-chip (1)</b> 24:21	<b>represents (1)</b> 6:10	<b>same (6)</b> 11:22;18:4;19:3,4; 21:13;34:9
<b>Presuming (2)</b> 13:3,5	<b>qualification (1)</b> 17:12	<b>recipients (1)</b> 19:20	<b>require (4)</b> 8:2;19:20;20:20; 29:4	<b>saw (1)</b> 21:7
<b>pretty (4)</b> 13:21;14:9;26:21; 30:17	<b>qualify (2)</b> 19:22;33:16	<b>recommend (1)</b> 23:15	<b>required (3)</b> 5:9;15:9,24	<b>saying (4)</b> 16:12;19:16;26:13; 31:2
<b>previous (1)</b> 17:11	<b>quality (4)</b> 24:9;32:1,6;34:13	<b>recommendation (3)</b> 3:12;14:24;30:18	<b>requirement (2)</b> 13:12;15:8	<b>scene (2)</b> 3:16;32:5
<b>price (1)</b> 28:17	<b>quantity (1)</b> 15:6	<b>recommendations (4)</b> 7:6,24;29:15;30:16	<b>requirements (4)</b> 13:5;15:17;16:2; 19:15	<b>scheduled (1)</b> 3:10
<b>prices (5)</b> 4:8,21,23;28:10;29:5	<b>quickly (3)</b> 25:13;32:14;37:10	<b>recommended (2)</b> 23:15;28:4	<b>residential (9)</b> 5:4,16;6:6;8:14;11:6, 9;33:16,18;36:22	<b>school (4)</b> 11:11,12,19;17:1
<b>primarily (1)</b> 5:23	<b>quite (4)</b> 11:15;17:2;19:18; 32:24	<b>recommending (1)</b> 3:8	<b>residentially (1)</b> 28:15	<b>schools (2)</b> 10:6;18:11
<b>primary (1)</b> 4:1	<b>R</b>	<b>reconsider (1)</b> 32:21	<b>resilient (1)</b> 11:20	<b>Scott (11)</b> 13:2,3,9;14:15; 18:23,24;19:10;20:8; 25:23,24;27:11
<b>probably (3)</b> 4:24;13:19;27:1		<b>RECs (15)</b> 5:9;7:7,11;12:14; 16:14;33:14,17,18,22; 34:22;35:2,8,19,22,22	<b>resist (1)</b> 33:9	<b>Scott's (2)</b> 17:20,21
<b>process (4)</b> 16:16,22;29:2;34:22	<b>radars (1)</b> 31:4	<b>reduce (1)</b> 10:4	<b>Resource (1)</b> 14:21	<b>season (3)</b> 29:18,20;32:18
<b>processed (2)</b> 5:19;7:13	<b>raise (2)</b> 20:2;37:3		<b>respect (2)</b> 15:8;17:11	<b>seated (1)</b> 3:3
<b>produced (1)</b> 36:2	<b>raised (1)</b> 19:2		<b>respects (1)</b> 18:3	<b>sectors (1)</b> 36:2
<b>product (10)</b> 14:6;17:17,18;24:1, 6,20;25:8,9;29:12,13	<b>raising (1)</b> 31:14		<b>response] (3)</b> 33:6;36:14;37:4	
<b>products (2)</b> 14:13;32:3	<b>ramifications (1)</b> 32:9			
	<b>range (1)</b>			



<b>trademarked (2)</b> 17:15;24:3 <b>traditional (1)</b> 24:24 <b>trailer (1)</b> 12:6 <b>transformation (1)</b> 31:10 <b>tremendous (1)</b> 32:15 <b>tremendously (2)</b> 16:18;31:6 <b>tries (1)</b> 10:14 <b>truck (11)</b> 9:7;11:8,17,23;12:6; 18:2,4;19:4,5;21:23,24 <b>trucking (3)</b> 9:4;11:24;21:22 <b>truckload (1)</b> 15:6 <b>trucks (4)</b> 12:1,4,8;22:23 <b>try (1)</b> 9:3 <b>trying (1)</b> 26:7 <b>turning (1)</b> 3:14 <b>two (5)</b> 10:15;31:16;32:11; 34:6;36:9 <b>type (2)</b> 18:10;21:16 <b>types (1)</b> 28:9 <b>typical (2)</b> 20:23;35:12	32:21 <b>utilize (2)</b> 21:9,11 <b>utilized (1)</b> 10:20	<b>HEATING SYSTEMS</b> <b>what's (1)</b> 32:7 <b>whenever (1)</b> 31:16 <b>Whereupon (1)</b> 37:12 <b>whole (7)</b> 11:21;12:12;16:7,12, 16:23;5;26:16 <b>Wiesner (6)</b> 3:15,17,18;36:18,20; 37:5 <b>wishes (1)</b> 36:12 <b>without (2)</b> 18:16;35:22 <b>wonder (1)</b> 26:13 <b>wondering (1)</b> 26:2 <b>Wood (10)</b> 3:6,24;4:9;5:20; 10:14;13:6,11;14:22; 19:5;26:2 <b>wood-fired (1)</b> 18:11 <b>woods (2)</b> 14:2,3 <b>word (1)</b> 29:17 <b>workload (1)</b> 32:15 <b>worthwhile (1)</b> 29:20 <b>written (5)</b> 3:13;7:21;15:19; 36:16;37:9	<b>10th (1)</b> 3:14 <b>1250-kilowatt (2)</b> 12:12,17 <b>13-298 (1)</b> 3:4 <b>13-plus (1)</b> 10:1 <b>150 (1)</b> 20:3 <b>150-kilowatt (2)</b> 33:13,19 <b>16 (1)</b> 12:2 <b>16.4 (1)</b> 9:23	
	<b>V</b>			<b>6</b>
	<b>Valkenburgh (6)</b> 20:10,12;21:2;26:19; 34:3,4 <b>value (7)</b> 7:8;8:10;13:24; 28:18;29:19;33:23; 35:15 <b>value-added (2)</b> 14:6,13 <b>Van (6)</b> 20:10,12;21:2;26:19; 34:3,4 <b>various (1)</b> 34:21 <b>verbal (3)</b> 33:6;36:14;37:4 <b>verification (2)</b> 5:15;34:15 <b>verify (1)</b> 34:14 <b>Vice-president (1)</b> 7:18 <b>volume (1)</b> 28:23 <b>volumes (1)</b> 8:11 <b>volunteers (1)</b> 34:20			<b>6,000- (1)</b> 11:12
	<b>W</b>			<b>8</b>
<b>U</b> <b>unclear (1)</b> 19:14 <b>under (2)</b> 24:19;27:9 <b>undertaking (1)</b> 17:2 <b>up (22)</b> 4:14,23;5:18;6:23; 17:17;20:11;21:12; 22:6,8,16;25:4,7;27:3; 31:3,18;32:17;33:3,10, 18;35:3,18;36:9 <b>update (1)</b> 23:22 <b>use (3)</b> 8:11;10:18;28:23 <b>used (3)</b> 10:6;32:9;33:21 <b>users (1)</b> 8:11 <b>using (4)</b> 10:13;17:16;21:9;	<b>wait (2)</b> 19:11;29:21 <b>waiting (1)</b> 10:19 <b>warranted (1)</b> 30:22 <b>water (2)</b> 8:24;10:21 <b>waters (1)</b> 29:7 <b>way (11)</b> 4:23;16:23;20:19; 24:12;25:9;27:10;31:3; 33:24;34:17;35:6,9 <b>Wayland (1)</b> 3:20 <b>ways (1)</b> 21:6 <b>week (2)</b> 36:17;37:9 <b>weren't (2)</b> 22:23;26:9 <b>wet (2)</b> 13:11;26:11	<b>Y</b> <b>year (3)</b> 4:6;32:11;35:13 <b>years (3)</b> 11:8;22:22;31:16	<b>2</b> <b>2:55 (1)</b> 37:13 <b>200 (1)</b> 11:10 <b>200,000 (4)</b> 5:7;15:9;16:6;20:1 <b>2009-2010 (1)</b> 30:14 <b>2016 (2)</b> 3:7,14 <b>25 (1)</b> 24:17 <b>2500 (3)</b> 5:14;15:14,24 <b>27th (1)</b> 3:7	<b>80 (2)</b> 35:22,24
		<b>Z</b>		
		<b>zero (1)</b> 8:23		
		<b>0</b>		
		<b>01 (1)</b> 26:23		
		<b>1</b>		
		<b>1 (2)</b> 6:12;18:15 <b>1:00 (1)</b> 26:9 <b>10,000-gallon (1)</b> 11:12		
			<b>3</b>	
			<b>30 (7)</b> 9:14;10:10;12:6,22; 13:23;24:19;27:9 <b>30-percent (1)</b> 18:9 <b>32 (1)</b> 6:11 <b>362-F (1)</b> 19:24 <b>37 (1)</b> 9:21	
			<b>4</b>	
			<b>40 (2)</b> 4:14;30:19 <b>48 (1)</b> 9:9	
			<b>5</b>	
			<b>500,000 (2)</b> 22:7;23:18	