DIVISION OF RATEPAYER ADVOCATES
A.13-02-023 Energy Resource Recovery Acct 2012-Compliance
DRA Response to PG&E DR #3 (2nd Partial Response)

Recipient	Division of Ratepayer Advocates		
PG&E Data Request No.:	PGE_DRA-003		
PG&E File Name:	EnerResourceRecoveryAcct2012-Compliance_DR_PGE_DRA-003/Q5a		
Request Date:	September 9, 2013	PG&E Witness:	Redacted
Due Date:	September16, 2013	DRA Witness:	Ravinder Mangat

Question 3.5a:
Chapter 3 -- PG&E's Management of Utility-Owned Generation – Fossil (Ravinder Mangat)

3.5. On pages 3-15 and 3-16, DRA describes their method for calculating foregone energy costs.
a. Please describe how H is used in the equation, A * (P - F) = Disallowance.

DRA Response

As described in DRA's response to PG&E's DR 2, question 6, H represents the total time that the unit was offline in the identified outage, and it was used as a component of the equation to derive A, which represents the total net energy award that HGBS would have reasonably been able to receive for the duration of the outage. The calculation used to derive A is as follows:

a. Please describe how H is used in the equation, A * (P - F) = Disallowance.

H (total time that the unit was offline in hours) * capacity factor (estimated as a percentage) * MW (total net maximum capacity of unit) = A (total net energy award that HGBS would have reasonably been able to receive for the duration of the outage).

Recipient	Division of Ratepayer Advocates		
PG&E Data Request No.:	PGE_DRA-003		
PG&E File Name:	EnerResourceRecoveryAcct2012-Compliance_DR_PGE_DRA-003/Q5b		
Request Date:	September 9, 2013	PG&E Witness:	Redacted
Due Date:	September 16, 2013	DRA Witness:	Ravinder Mangat

Question 3.5b:
Chapter 3 -- PG&E's Management of Utility-Owned Generation – Fossil (Ravinder Mangat)

3.5. On pages 3-15 and 3-16, DRA describes their method for calculating foregone energy costs.

b. In the calculation of A, the average total net award that HBGS would have reasonably been able to receive for each hour during the duration of the outage, does DRA assert that A = NMC * (Service Hours / Available Hours)? Does DRA assert that capacity factor = Service Hours / Available Hours?

DRA Response

b. In the calculation of A, the average total net award that HBGS would have reasonably been able to receive for each hour during the duration of the outage, does DRA assert that A = NMC * (Service Hours / Available Hours)? Does DRA assert that capacity factor = Service Hours / Available Hours?

See response to previous question which describes the calculation of A. In addition, as described in an email from PG&E to DRA dated August 12, 2013 (see Attachment 3.5b), "Engine 5 information is in the bid sheet HUMBPP_1_UNITS3. The bid sheet contains configuration information. It is not a one to one relationship to the Humboldt engines." Therefore it was not possible to calculate the total MW produced by Unit 5 during the record period. In the absence of information that is specific to unit 5, DRA decided to use the calculation described - Service Hours / Available Hours, as a proxy method to approximate the capacity factor. An ideal calculation of capacity factor would require an estimate of total MW hours produced by a resource divided by the total maximum capacity (MWh) that the resource could have potentially produced over the same time period.

ATTACHMENT 3.5b

From: Redacted
Sent: Monday, August 12, 2013 3:21 PM
To: Mangat, Ravinder
Cc: Yeo, Michael; Narang, Aparna (Merchant); Redacted; Redacted
Middlekauff, Charles (Law)
Subject: RE: Humboldt bay Unit 5

Ravi,

Engine 5 information is in the bid sheet HUMBPP_1_UNITS3.
The bid sheet contains configuration information. It is not a one to one relationship to the Humboldt engines.

Another way to look at it is:
Humboldt resource 3 has 4 engines and it can be available in 4 configurations. If any one engine is not available, then only 3 configurations are available.

Hope this information helps.

Regards,

Redacted

From: Mangat, Ravinder [mailto:ravinder.mangat@cpuc.ca.gov]
Sent: Monday, August 12, 2013 2:14 PM
To: Redacted
Subject: Humboldt bay Unit 5
Importance: High

Hi Reda

Do you know which bid sheet contains the information on Unit 5 – also if you could tell me which units relate to which among these Humboldt bay spreadsheets that would be greatly appreciated. I see 3 spreadsheets:

- HUMBPP_6_UNITS2
- HUMBPP_6_UNITS1
- HUMBPP_1_UNITS3

By reference the UOG: fossil chapter numbers Humboldt Bay as having 10 separate units. If it is simple please just give me a call.

ATTACHMENT 3.5b (continued)

Thanks in advance

Ravinder Mangat
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Recipient	Division of Ratepayer Advocates		
PG&E Data Request No.:	PGE_DRA-003		
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Request Date:	September 9, 2013	PG&E Witness:	Redacted
Due Date:	September 16, 2013	DRA Witness:	Ravinder Mangat

Question 3.5c:
Chapter 3 -- PG&E's Management of Utility-Owned Generation – Fossil (Ravinder Mangat)

3.5. On pages 3-15 and 3-16, DRA describes their method for calculating foregone energy costs.

c. In calculating foregone energy costs, did DRA consider whether another unit at HBGS could be used to fulfill any energy needs not met by the unit that was scheduled or forced out of service?

DRA Response

c. In calculating foregone energy costs, did DRA consider whether another unit at HBGS could be used to fulfill any energy needs not met by the unit that was scheduled or forced out of service?

No, DRA focused solely on the unit subject to the outage.

Recipient	Division of Ratepayer Advocates		
PG&E Data Request No.:	PGE_DRA-003		
PG&E File Name:	EnerResourceRecoveryAcct2012-Compliance_DR_PGE_DRA-003/Q6		
Request Date:	September 9, 2013	PG&E Witness:	Redacted
Due Date:	September 16, 2013	DRA Witness:	Ravinder Mangat

Question 3.6:
Chapter 3 -- PG&E's Management of Utility-Owned Generation – Fossil (Ravinder Mangat)

3.6. On page 3-16, line 21, please provide all workpapers and references used to calculate 128.48 hours.

DRA Response

Please see DRA's response to DR 2 – questions 5, 6 and 7. The calculation is included in the attachment in response to DR1: "HB_disallowance_calculations".

Recipient	Division of Ratepayer Advocates		
PG&E Data Request No.:	PGE_DRA-003		
PG&E File Name:	EnerResourceRecoveryAcct2012-Compliance_DR_PGE_DRA-003/Q7		
Request Date:	September 9, 2013	PG&E Witness:	Redacted
Due Date:	September16, 2013	DRA Witness:	Ravinder Mangat

Question 3.7:
Chapter 3 -- PG&E's Management of Utility-Owned Generation – Fossil (Ravinder Mangat)

3.7. On page 3-17, lines 20-22, DRA explains that it assumes that Unit 7 was out for the same amount of time as Unit 5 (eleven days) in order to repair the turbocharger turbine blades. Why didn't DRA use the Unit 7 maintenance outage time of 79.2 hours that PG&E provided to DRA in its response to the Master Data Request Question 14?

DRA Response

DRA could not ascertain that the total time needed to repair the turbocharger turbine blades in unit 7 was equal to Unit 7 maintenance outage time that PG&E provided to DRA in its response to the Master Data Request Question 14. DRA would be willing to amend its testimony if PG&E can confirm that 79.2 hours represents the total time needed to repair the turbocharger turbine blades in unit 7.