

Confidential Release

Case Number: 10-503-EL-FOR

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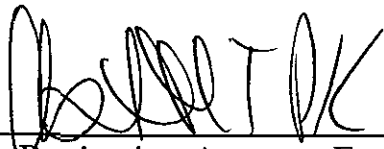
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
Testimony of Peter Lanzalotta
Report - Exh. PJJ 3

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Confidential treatment has been requested for the following document:

Case # 10-503-EL-FOR

➤ Page Count 6

➤ Date Filed 4/1/2011

➤ Filed by Henry Eckhart on behalf of
Natural Resources Defense Council

❖ Summary of document:

Report

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April 1, 2011

Docketing Department
Public Utilities Commission of Ohio
180 East Broad Street, 11th floor
Columbus Oh 43215

2011 APR - 1 PM 4: 25
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Re: Case No. 10-503-EL-FOR
File Document Under Seal

Secretary:

I represent the Natural Resources Defense Counsel and I am filing herewith (under seal) an original and 3 copies of an Ex. PJL 3 which is the Confidential Version of an Exhibit to the testimony of Peter Lanzalotta in Case No. 10-503-EL-FOR.

Respectfully,

Henry W. Eckhart
Henry W. Eckhart

HWE;eh
cc: NRDC
cc: Elizabeth Watts, Duke Energy (letter only)

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Base Case and Beckjord Coal-Fired Generation Removed

Entries below show loading in MW and, in parentheses, as a percent of summer normal ratings. Positive flows are from the first location to the second, such as from Pierce to Dearborn in the first entry. Negative numbers indicate a flow from the second location to the first, such as from Dearborn to Pierce in the first entry.

345 kV transmission loadings at Pierce.

	Base Case	Beckjord Generation Removed
Transmission Lines		
Pierce – Dearborn	32 MW (3 percent)	-77 MW (7 percent)
Pierce -- DOE	-37 (4)	-113 (11)
Pierce – Clifty #1	-290 (29)	-367 (37)
Pierce – Clifty #2	-290 (29)	-367 (37)
Pierce – DOE	-46 (5)	-109 (11)
Pierce – DOE	-46 (5)	-109 (11)
Pierce – DOE	-37 (4)	-113 (11)
Pierce – Buffington	48 (5)	-21 (2)
Pierce – Foster	718 (59)	608 (50)
Transformers		
Pierce – Beckjord 138 kV	118 (27)	228 (52)
Pierce – Beckjord 138 kV	134 (27)	230 (47)
Pierce – Beckjord 138 kV	108 (25)	210 (48)

This information is confidential. Do not release.

138 kV Transmission loadings at Beckjord.

	Base case	Beckjord Generation Removed	
Transmission Lines			
Beckjord -- Clermont	209 MW (63 percent)	176 MW	(52 percent)
Beckjord -- S Grove	42 (17)	-34	(11)
Beckjord -- Tobasco	222 (74)	174	(58)
Beckjord -- Wilder	84 (37)	60	(26)
Beckjord -- Cold Springs	113 (43)	69	(27)
Beckjord -- Feldman	186 (60)	148	(48)
Beckjord -- Newton	182 (65)	116	(42)
Beckjord -- Oakley	136 (48)	90	(31)
Transformers			
Beckjord -- Pierce 345 kV	-134 (23)	-229	(38)
Beckjord -- Pierce 345 kV	-108 (23)	-209	(44)
Beckjord -- Pierce 345 kV	-118 (25)	-228	(52)
Beckjord - Beckjord 69 kV	14 (10)	14	(10)

This information is confidential. Do not release.

Foster 345 kV Loadings

	Base Case	Beckjord Generation Removed
Transmission Lines		
Foster – Pierce	-713 MW (60 percent)	-604 MW (50 percent)
Foster – Port Union	-288 (24)	-261 (21)
Foster – Toddhunter	-196 (17)	-195 (17)
Foster – Hillcrest	-542 (35)	-584 (37)
Foster – Bath	673 (54)	621 (49)
Foster – Sugar Creek	761 (61)	706 (56)
Transformer		
Foster – Foster 138 kV	305 (73)	317 (75)

Foster 138 kV Loadings

	Base Case	Beckjord Generation Removed
Transmission Lines		
Foster – Mainville	37 (16)	27 (11)
Foster – Montgomery	43 (21)	79 (30)
Foster – Park	115 (38)	108 (35)
Foster – Twenty Mile	140 (48)	138 (47)
Foster – O'Bannonville	-30 (13)	-36 (14)
Transformer		
Foster – Foster 345 kV	-304 (74)	-316 (75)

This information is confidential. Do not release.

Red Bank 345 kV Loadings

Transmission Lines	Base Case	Beckjord Generation Removed
Red Bank – Terminal	207 (17)	144 (11)
Red Bank – Silver Grove	-638 (41)	-643 (41)
Transformers		
Red Bank – Red Bank 138 kV	218 (51)	258 (60)
Red Bank – Red Bank 138 kV	213 (50)	241 (56)

Red Bank 138 kV Loadings

Transmission Lines	Base Case	Beckjord Generation Removed
Red Bank – Newton	-146 (44)	-81 (24)
Red Bank – Oakley	198 (60)	214 (64)
Red Bank – Tap 748	165 (44)	124 (33)
Red Bank – Ashland	141 (60)	141 (59)
Red Bank – Terminal	119 (44)	104 (38)
Red Bank – Tobasco	-47 (15)	-4 (3)
Transformers		
Red Bank – Red Bank 345 kV	-217 (51)	-258 (59)
Red Bank – Red Bank 345 kV	-213 (51)	-241 (56)

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Port Union 345 kV Loadings

Transmission Lines	Base Case	Beckjord Generation Removed
Port Union – Foster	289 (24)	261 (21)
Port Union – Terminal	-250 (17)	-222 (14)
Port Union – Zimmer	-626 (42)	-637 (42)
Transformers		
Port Union – Port Union 138 kV	287 (63)	296 (65)
Port Union – Port Union 138 kV	301 (70)	303 (70)

Port Union 138 kV Loadings

Transmission Lines	Base Case	Beckjord Generation Removed
Port Union – Beckett	2 (11)	-9 (11)
Port Union – Kemper	22 (7)	36 (10)
Port Union – Melhauser	56 (32)	48 (29)
Port Union – Seward	140 (50)	134 (48)
Port Union – Summerside	-42 (22)	-19 (9)
Port Union – Dimmick	86 (44)	88 (45)
Port Union – Hall	65 (22)	64 (21)
Port Union – Millikin	-35 (13)	-40 (14)
Trnasformers		
Port Union – Port Union 345 kV	-286 (64)	-295 (64)
Port Union – Port Union 345 kV	-301 (70)	-303 (69)

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Silver Grove 345 kV Loadings

	Base Case	Beckjord Generation Removed
<i>Transmission Lines</i>		
Silver Grove – Red Bank	641 MW (41 %)	647 MW (41 %)
Silver Grove – Zimmer	-868 (51)	-940 (55)
<i>Transformer</i>		
Silver Grove – Silver Grove 138 kV	227 (52)	293 (68)

Silver Grove 138 kV Loadings

	Base Case	Beckjord Generation Removed
<i>Transmission Lines</i>		
Silver Grove – Beckjord	-42 (17%)	34 (11 %)
Silver Grove – Hands	45 (29)	17 (10)
Silver Grove - Ky. Univ.	127 (46)	138 (50)
Silver Grove - Lafarge	96 (34)	104 (36)
<i>Transformer</i>		
Silver Grove – Silver Grove 345 kV	- 227 (52)	-293 (67)