



19700 Janelia Farms Blvd
 Ashburn, VA 20147
 703-726-5500

Off-Air TV Reception Analysis at the Dutch Hill Wind Farm Project Area in Steuben County, New York

Comsearch was contracted by ESS Group to identify all of the off-air television stations within 100-mile radius of the proposed Dutch Hill Wind Farm Project in Steuben County, NY. Off-air stations are television broadcasters that transmit signals that can be received directly on a television receiver from terrestrially located broadcast facilities. Comsearch examined the coverage of the off-air TV stations and the communities in the area that could potentially have degraded television reception because of the location of the wind turbines. The proposed wind energy facility boundaries and local communities are plotted in the map shown in Figure 1 of this memorandum. Table 1 lists the off-air television stations, U.S. and Canadian within 100 mile radius of the wind facility.

Table 1 List of Off-Air TV Channels within 100 Miles of the Dutch Hill Wind Farm

Location		Call Sign	Channel	Service	Status	Distance-miles
BUFFALO	NY	WGRZ-TV	2	TV	LIC	56.09
ELMIRA	NY	WETM-TV	2	DT	CP MOD	43.32
ELMIRA	NY	WETM-TV	2	DS	STA	43.32
SYRACUSE	NY	WSTM-TV	3	TV	LIC	75.46
BUFFALO	NY	WIVB-TV	4	TV	LIC	58.49
BINGHAMPTON	NY	WIVT	4	DS	STA	85.77
BINGHAMTON	NY	WIVT	4	DT	LIC	85.77
SYRACUSE	NY	WTVH	5	TV	LIC	76.15
SYRACUSE	NY	WTVH	5	TV	CP	76.15
WILLIAMSPORT	PA	W05BG	5	CA	LIC	94.76
HORNELL	NY	W06AR	6	TX	LIC	19.02
GREECE/ROCHESTER	NY	WGCE-CA	6	CA	LIC	46.44
BINGHAMTON	NY	W06CC	6	TX	CP	86.41
WESTVALE	NY	WMBO-LP	6	TX	APP	76.53
ELMIRA	NY	W06CD	6	TX	LIC	46.04
ITHACA	NY	W07BJ	7	TX	LIC	54.83
SYRACUSE-DEWITT	NY	W07BA	7	TX	LIC	75.17
BINGHAMTON	NY	WBNG-TV	7	DT	CP	85.44
BINGHAMTON	NY	WBNG-TV	7	DS	STA	85.44
BUFFALO	NY	WKBW-TV	7	TV	LIC	58.00
BUFFALO	NY	WKBW-TV	7	TS	CP	58.00
ROCHESTER	NY	WROC-TV	8	TV	LIC	41.87
BINGHAMTON	NY	WICZ-TV	8	DS	STA	85.86
BINGHAMTON	NY	WICZ-TV	8	DT	CP MOD	85.86
WILLIAMSPORT	PA	W55AG	8	LD	APP	91.75
SYRACUSE	NY	WSYR-TV	9	TV	LIC	79.92
ITHACA	NY	WNYI	9	DT	APP	51.35
JAMESTOWN	NY	W10BH	10	TX	LIC	92.74
ROCHESTER	NY	WHEC-TV	10	TV	LIC	41.87

MORRIS	NY	WBPN-LP	10	TX	LIC	85.87
TOWANDA	PA	W10CP	10	TX	LIC	78.40
TOWANDA	PA	W10CP	10	LD	APP	78.40
SYRACUSE	NY	WONO-CA	11	CA	LIC	76.53
BINGHAMTON	NY	WBNG-TV	12	TV	LIC	85.42
ROCHESTER	NY	WHAM-TV	13	TV	LIC	41.87
ONEIDA	NY	W13BR	13	CA	LIC	99.77
SYRACUSE	NY	WBLZ-LP	13	CA	LIC	76.53
BATH	NY	870331LW	14	TA	-	23.66
BATH	NY	870331LW	14	TV	CP	20.78
SYRACUSE	NY	WSTQ-LP	14	TX	LIC	76.53
SYRACUSE	NY	WSPX	14	DN	APP	90.53
BUFFALO	NY	WUTV	14	DS	STA	80.59
BUFFALO	NY	WUTV	14	DT	CP	80.59
BUFFALO	NY	WBNF-CA	15	CA	LIC	80.59
ONEIDA	NY	WTKO-LP	15	TX	LIC	99.77
BUFFALO	NY	WBNF-CA	15	TX	CP	80.59
AUBURN	NY	WNNY-LP	15	TX	CP	56.85
TOWANDA	PA	W69CE	15	TX	CP	78.40
TOWANDA	PA	W69CE	15	LD	APP	78.40
HORNELL	NY	W16BE	16	TX	LIC	19.58
ITHACA	NY	W16AX	16	CA	LIC	51.33
ROCHESTER	NY	WXXI-TV	16	DT	CP MOD	41.87
ROCHESTER	NY	WXXI-TV	16	DT	LIC	41.87
BUFFALO	NY	WNED-TV	17	TV	LIC	80.36
SYRACUSE	NY	WSYR-TV	17	DT	LIC	79.92
SYRACUSE	NY	WNDR-LP	18	CA	LIC	78.28
ELMIRA	NY	WETM-TV	18	TV	LIC	43.32
BATAVIA	NY	W52CB	18	TX	APP	36.56
ELMIRA	NY	WETM-TV	18	DT	APP	43.32
SYRACUSE	NY	WSYT	19	DS	STA	70.02
SYRACUSE	NY	WSYT	19	DT	LIC	70.02
OLEAN	NY	W20AB	20	TX	LIC	57.32
BATH	NY	W20BL	20	TX	LIC	20.71
ITHACA	NY	W20BT	20	TX	LIC	47.88
ROCHESTER	NY	WAWW-LP	20	TX	CP	41.88
BINGHAMTON	NY	WBGH-CA	20	CA	LIC	85.77
WILLIAMSPORT	PA	W20AD	20	TA	-	92.67
WILLIAMSPORT	PA	W20AD	20	TX	LIC	91.75
MANSFIELD	PA	W63AB	20	TX	CP	60.78
MANSFIELD	PA	W63AB	20	LD	APP	60.78
WILLIAMSPORT	PA	W20AD	20	LD	APP	91.75
WELLAND	ON	-	20	TA	-	94.69
ROCHESTER	NY	WXXI-TV	21	TV	LIC	41.87
ELMIRA	NY	W21BW	21	TX	LIC	50.10
SYRACUSE	NY	WTVU-LP	22	CA	LIC	76.53
CORNING	NY	NEW	22	TX	APP	34.30
SYRACUSE	NY	WTVU-LP	22	TX	CP	76.53
ST CATHARINES	ON	NEW-DT	22	DT	APP	99.45
BUFFALO	NY	WNLO	23	TV	LIC	80.36

ARCADE	NY	NEW	24	DM	APP	37.46
SYRACUSE	NY	WCNY-TV	24	TV	LIC	75.46
ELMIRA	NY	W59DG	24	TX	APP	48.27
OLEAN	NY	WONS-LP	25	CA	LIC	58.03
SYRACUSE	NY	WCNY-TV	25	DT	LIC	75.46
TOWANDA	PA	W25AQ	25	TX	LIC	78.26
TOWANDA	PA	W25AQ	25	LD	APP	78.26
ELMIRA	NY	W26BF	26	TX	LIC	45.43
JAMESTOWN	NY	WNYB	26	TV	LIC	89.29
BINGHAMTON	NY	W26BS	26	TX	LIC	85.86
VICTOR	NY	W26BZ	26	TX	LIC	34.92
CANISTEO AND HORNELL	NY	W26CY	26	TX	CP	19.66
WILLIAMSPORT	PA	W26AT	26	TX	LIC	91.75
MANSFIELD	PA	W26CV	26	TX	LIC	60.78
MANSFIELD	PA	W26CV	26	LD	APP	60.78
WILLIAMSPORT	PA	W26AT	26	LD	APP	91.75
CORNING	NY	NEW	27	TX	APP	34.25
JAMESTOWN	NY	WNYB	27	DS	STA	89.29
JAMESTOWN	NY	WNYB	27	DT	LIC	89.29
ROCHESTER	NY	WUHF	28	DS	STA	41.84
ROCHESTER	NY	WUHF	28	DS	STA	41.84
BUFFALO	NY	WDTB-LP	28	TX	CP	74.45
ROCHESTER	NY	WUHF	28	DT	LIC	41.84
BUFFALO	NY	WUTV	29	TV	LIC	80.59
WILLIAMSPORT	PA	WILF	29	DT	CP	93.92
SYRACUSE	NY	W30AJ	30	TX	LIC	76.96
CORNING	NY	WSKA	30	TV	CP	50.10
CORNING	NY	960401KF	30	TV	APP	34.57
CORNING	NY	WSKA	30	TA	-	34.89
ELMIRA	NY	WTTX-LP	30	TX	LIC	43.34
OLEAN	NY	W30BW	30	TX	LIC	58.00
CORNING	NY	WSKA	30	DT	CP MOD	34.32
WILLIAMSPORT	PA	W30AN	30	TX	LIC	91.75
WILLIAMSPORT	PA	W30AN	30	LD	APP	91.75
ROCHESTER	NY	WUHF	31	TV	LIC	41.87
BUFFALO	NY	WNLO	32	DT	LIC	80.36
AUBURN	NY	WNNY-LP	32	TX	APP	56.85
BUFFALO	NY	WGRZ-TV	33	DS	STA	56.09
ELMIRA	NY	WETM	33	DR	APP	43.32
BUFFALO	NY	WGRZ-TV	33	DT	LIC	56.09
BUFFALO	NY	WNYO-TV	34	DS	STA	52.15
BINGHAMTON	NY	WIVT	34	TV	LIC	85.77
BUFFALO	NY	WNYO-TV	34	DT	CP	80.59
BINGHAMTON	NY	WIVT	34	DT	APP	85.77
SYRACUSE	NY	WOBX-LP	35	TX	LIC	76.53
SYRACUSE	NY	WOBX-LP	35	CA	LIC	76.53
ELMIRA	NY	WENY-TV	36	TV	LIC	43.34
ROCHESTER	NY	WHSH-CA	36	CA	LIC	41.88
ROCHESTER	NY	WAWW-LP	38	TX	LIC	41.88
SYRACUSE	NY	W38CY	38	TX	LIC	76.15

BUFFALO	NY	WKBW-TV	38	DT	LIC	57.99
SYRACUSE	NY	W38CY	38	LD	APP	76.13
HAMBURG	NY	WDTB-LP	39	TX	LIC	69.64
BUFFALO	NY	WIVB-TV	39	DT	LIC	58.49
CORNING	NY	WJKP-LP	39	TX	LIC	34.30
WILLIAMSPORT	PA	W39BT	39	TX	LIC	93.92
WILLIAMSPORT	PA	W39BT	39	LD	APP	93.92
BINGHAMTON	NY	WICZ-TV	40	TV	LIC	85.86
ROCHESTER	NY	WBGT-CA	40	CA	LIC	45.00
DEWITT	NY	WIXT-CA	40	CA	LIC	78.28
BUFFALO	NY	WDTB-LP	40	TX	STA	74.45
RENOVO	PA	W40BS	40	TX	LIC	85.70
RENOVO	PA	W40BS	40	LD	APP	85.70
GENESEO	NY	NEW	41	DN	ADD	17.90
ROCHESTER	NY	NEW	41	DM	ADD	44.67
CORNING	NY	W41DB	41	TX	CP	34.30
ROCHESTER	MI	W42CO	42	LD	APP	41.88
ROCHESTER	NY	W42CO	42	TX	LIC	41.88
BINGHAMTON	NY	WSKG-TV	42	DS	STA	85.63
BINGHAMTON	NY	WSKG-TV	42	DT	LIC	85.65
WELLAND	ON	NEW-DT	42	DT	APP	94.69
SYRACUSE	NY	WNYS-TV	43	TV	LIC	70.04
BUFFALO	NY	WNED-TV	43	DT	LIC	80.36
MANSFIELD	PA	W43CJ	43	TX	CP	49.54
MANSFIELD	PA	W43CJ	43	TX	APP	49.54
SYRACUSE	NY	WNYS-TV	44	DT	CP	70.02
ROCHESTER	NY	WROC-TV	45	DS	STA	41.87
ROCHESTER	NY	WROC-TV	45	DT	CP MOD	41.87
MANSFIELD	PA	W54AV	45	LD	APP	60.78
JAMESTOWN	NY	W46BA	46	TX	LIC	97.15
JAMESTOWN	NY	900725KG	46	TV	APP	97.15
JAMESTOWN	NY	W46BA	46	TA	-	94.70
SPRINGVILLE	NY	WNGS	46	DT	APP	57.99
BINGHAMTON	NY	WSKG-TV	46	TV	LIC	85.65
SYRACUSE	NY	W30AJ	46	TX	APP	75.45
ROCHESTER	NY	WROH-LP	47	TX	LIC	41.88
ROCHESTER	NY	WROH-LP	47	CA	CP	41.88
SYRACUSE	NY	WTVH	47	DS	STA	76.15
SYRACUSE	NY	WTVH	47	DT	CP MOD	76.15
AUBURN	NY	W48AO	48	TX	LIC	54.71
CORNING	NY	WYDC	48	TV	LIC	34.57
CORNING	NY	WYDC	48	TV	CP	34.30
BUFFALO	NY	WNYO-TV	49	TV	LIC	52.15
SYRACUSE	NY	WNDR-LP	49	CA	CP	76.57
CORNING	NY	WYDC	50	DT	CP	34.57
CORNING	NY	WYDC	50	DS	STA	34.30
SYRACUSE	NY	WHSU-CA	51	CA	LIC	76.53
BATAVIA	NY	WPXJ-TV	51	TV	LIC	36.56
WILLIAMSPORT	PA	W62CS	51	CA	CP	94.76
MORAVIA	NY	WNNY-LP	52	TX	LIC	56.85

ITHACA	NY	WNYI	52	TV	APP	70.21
ITHACA	NY	WNYI	52	TV	LIC	51.35
SAYRE	PA	W24DB	52	TX	LIC	62.43
BATAVIA	NY	WPXJ-TV	53	DT	APP	36.56
ENDICOTT	NY	W53CR	53	TX	CP	86.41
WILLIAMSPORT	PA	WILF	53	TV	LIC	93.92
AUBURN	NY	W54AK	54	TX	LIC	54.71
SYRACUSE	NY	WSTM-TV	54	DS	STA	75.46
SYRACUSE	NY	WSTM-TV	54	DT	LIC	75.46
MANSFIELD	PA	W54AV	54	TX	LIC	60.78
GREENWOOD	NY	DW55AD	55	TX	LIC	28.09
ELMIRA	NY	WENY-TV	55	DT	CP	43.34
WILLIAMSPORT	PA	W55AG	55	TX	LIC	91.75
FORT ERIE	ON	-	55	TA	-	85.91
WELLSVILLE & SCIO	NY	W56AU	56	TX	LIC	38.01
SYRACUSE	NY	WSPX-TV	56	TV	LIC	90.53
HAMMONDSPORT	NY	DW56AI	56	TX	LIC	16.43
KENNEDY	NY	W56AD	56	TX	LIC	85.43
RUSHFORD & HOUGHTON	NY	W56AV	56	TX	LIC	36.72
BUFFALO	NY	WBXZ-LP	56	TX	LIC	74.46
ARCADE	NY	NEW	56	DM	APP	54.29
WAVERLY	NY	961213KE	57	TV	APP	56.90
WAVERLY	NY	961213KF	57	TV	APP	60.02
WAVERLY	NY	961213KE	57	TA	-	59.07
BUFFALO	NY	WFHW-LP	58	TX	LIC	74.46
ROCHESTER	NY	WHEC-TV	58	DS	STA	41.87
ROCHESTER	NY	WHEC-TV	58	DS	STA	41.87
ROCHESTER	NY	WHEC-TV	58	DT	LIC	41.87
ALLENTOWN, ETC.	NY	W59AH	59	TX	LIC	43.34
ELMIRA	NY	W59DG	59	TX	LIC	48.27
ROCHESTER	NY	WHAM-TV	59	DS	STA	41.87
ROCHESTER	NY	WHAM-TV	59	DT	LIC	41.87
CUBA	NY	W60AJ	60	TX	LIC	46.73
SYRACUSE, ETC.	NY	WMBO-LP	60	TX	LIC	76.57
SAVONA	NY	W60AD	60	TX	LIC	20.77
ST CATHARINES	ON	-	60	TA	-	99.45
FORT ERIE	ON	CIII-TV-55	60	DT	APP	85.91
ANDOVER	NY	W61AJ	61	TX	LIC	31.96
ROCHESTER	NY	960228KF	61	TV	APP	41.87
ROCHESTER	NY	960228KF	61	TA	-	43.80
FRIENDSHIP & BELMONT	NY	W62AS	62	TX	LIC	36.74
FILLMORE	NY	W62AQ	62	TX	LIC	28.05
ARCADE	NY	960111KN	62	TV	APP	55.05
ARCADE	NY	960404KL	62	TV	APP	40.77
ARCADE	NY	960404LB	62	TV	APP	39.65
ARCADE	NY	960404LH	62	TV	APP	37.34
ARCADE	NY	960405L4	62	TV	APP	58.00
ARCADE	NY	960405L7	62	TV	APP	51.91
ARCADE	NY	960405LR	62	TV	APP	53.42
ARCADE	NY	960405LY	62	TV	APP	41.93

ARCADE	NY	960405XF	62	TV	APP	40.11
ARCADE	NY	960405XN	62	TV	APP	55.05
ARCADE	NY	960111KN	62	TA	-	39.10
CHERRY CREEK, ETC.	NY	W62AE	62	TX	LIC	85.27
SINCLAIRVILLE	NY	W62AG	62	TX	LIC	94.98
WILLIAMSPORT	PA	W62CS	62	TX	LIC	94.76
MANSFIELD	PA	W63AB	63	TX	LIC	60.78
WHITESVILLE	NY	W64AJ	64	TX	LIC	37.66
ANGELICA, ETC.	NY	W65AJ	65	TX	LIC	32.00
SPRINGVILLE	NY	WNGS	67	TV	LIC	60.61
SPRINGVILLE	NY	WNGS	67	TV	APP	58.00
MANSFIELD	PA	W67DZ	67	TX	CP	49.54
BOLIVAR & RICHBURG	NY	W68AJ	68	TX	LIC	47.77
SYRACUSE	NY	WSYT	68	TV	LIC	70.04
UNION SPRINGS, ETC.	NY	W69AN	69	TX	LIC	47.19
TROUPSBURG	NY	DW69AF	69	TX	LIC	30.06
TOWANDA	PA	W69CE	69	TX	LIC	78.40

Canadian Owned Stations

Tonawanda	NY	W36AW	36			80.35
Buffalo	NY	NY-DT-710	32			80.35
Buffalo	NY	NY-DT-709	43			80.35
Buffalo	NY	WNEQ-TV	23			80.35
Buffalo	NY	NY-DT-711	14			80.50
Buffalo	NY	BUF 36	36			80.50
Buffalo	NY	BUF 52	52			80.50
Buffalo	NY	W15BH(1)	15			80.58
Fort Erie	ON	CIII-TV-55	55			85.90
Fort Erie	ON	CIII-DT-55	60			85.90
St Catharines	ON	ON-DT-161	22			99.44
St Catharines	ON	ON-TV-461	48			99.44
Welland	ON	ON-DT-189	42			94.68
Welland	ON	ON-TV-489	50			94.68

TV –Normal Broadcast Station

DS-Digital Service Television, Temporary Operation, STA Operation

DT-Digital Television Broadcast Station

DR- Indicates Station has Applied for FCC Rule Making

GRA-Indicates Rule Making was granted by FCC

LP-Low Power Television Broadcast Station

TX-Translator Television Broadcast Station

LIC – Licensed and operational station

CP – License approved construction permit granted

APP – License application, not yet operational

STA – Special transmit authorization, usually granted by FCC for temporary operation

The most likely TV stations that will produce off-air coverage to the Steuben County, NY area will be those stations at a distance of 40 miles or less. Of the stations listed in Table 1 there are a total of 39 stations within this range, and of these, 19 are presently licensed and operational. Sixteen of the stations are either low-power stations or translators with limited coverage. Two of

the operational stations are full power and full service stations. They are Channel 48 (WYDC) and Channel 51 (WPXJ-TV). Channel 50 is the Digital Signal Broadcast of WYDC. It is operating under a special transmt authority granted by the FCC. The other twenty stations listed are either in their license application, or construction phase, but not yet operational. Based on the database results it must be concluded that there are not many off-air TV channels available to the residents of this area.

Table 2 Off-air TV Channels within 40 Miles of Dutch Hill Wind Farm

	Location	Call Sign	Channel	Service	Status	Distance-miles
	HAMMONDSPORT	NY DW56AI	56	TX	LIC	16.43
	GENESE0	NY NEW	41	DN	ADD	17.90
	HORNELL	NY W06AR	6	TX	LIC	19.02
	HORNELL	NY W16BE	16	TX	LIC	19.58
	CANISTEO AND HORNELL	NY W26CY	26	TX	CP	19.66
	BATH	NY W20BL	20	TX	LIC	20.71
	SAVONA	NY W60AD	60	TX	LIC	20.77
	BATH	NY 870331LW	14	TV	CP	20.78
	BATH	NY 870331LW	14	TA	-	23.66
	FILLMORE	NY W62AQ	62	TX	LIC	28.05
	GREENWOOD	NY DW55AD	55	TX	LIC	28.09
	TROUPSBURG	NY DW69AF	69	TX	LIC	30.06
	ANDOVER	NY W61AJ	61	TX	LIC	31.96
	ANGELICA, ETC.	NY W65AJ	65	TX	LIC	32.00
	CORNING	NY NEW	27	TX	APP	34.25
	CORNING	NY NEW	22	TX	APP	34.30
	CORNING	NY WJKP-LP	39	TX	LIC	34.30
	CORNING	NY W41DB	41	TX	CP	34.30
	CORNING	NY WYDC	48	TV	CP	34.30
	CORNING	NY WYDC	50	DS	STA	34.30
	CORNING	NY WSKA	30	DT	CP MOD	34.32
	CORNING	NY 960401KF	30	TV	APP	34.57
	CORNING	NY WYDC	48	TV	LIC	34.57
	CORNING	NY WYDC	50	DT	CP	34.57
	CORNING	NY WSKA	30	TA	-	34.89
	VICTOR	NY W26BZ	26	TX	LIC	34.92
	BATAVIA	NY WPXJ-TV	53	DT	APP	36.56
	BATAVIA	NY W52CB	18	TX	APP	36.56
	BATAVIA	NY WPXJ-TV	51	TV	LIC	36.56
	RUSHFORD & HOUGHTON	NY W56AV	56	TX	LIC	36.72
	FRIENDSHIP & BELMONT	NY W62AS	62	TX	LIC	36.74
	ARCADE	NY 960404LH	62	TV	APP	37.34
	ARCADE	NY NEW	24	DM	APP	37.46
	WHITESVILLE	NY W64AJ	64	TX	LIC	37.66
	WELLSVILLE & SCIO	NY W56AU	56	TX	LIC	38.01
	ARCADE	NY 960111KN	62	TA	-	39.10
	ARCADE	NY 960404LB	62	TV	APP	39.65
	ARCADE	NY 960405XF	62	TV	APP	40.11
	ARCADE	NY 960404KL	62	TV	APP	40.77

Figure 2 shows the location of the TV stations with respect to the area. Table 3 lists the communities and other locations where potential test points for the baseline off-air TV measurements may be made, if requested, in a subsequent phase of this project.

Table 3 Locations for Potential Test Points for Baseline Off-Air TV Measurements

North side of wind energy facility
East side of wind energy facility
South side of wind energy facility
West side of wind energy facility
Cohocton
North Cohocton
Bronson Hill
Lent Hill
Hemmer Hill
Wallace
Brown Hill

This area has two full service off-air TV Stations, sixteen low-power and/or translator stations and one digital TV broadcast station. Based on this, it is not expected that the of-air television stations are the primary mode of television service for the local communities. TV Cable service and/or direct satellite broadcast are probably the dominant delivery mode of TV service to the wind facility's surrounding communities.