

Meeting	Allegany County Hazard Mitigation Plan (HMP) Planning Partnership Risk Assessment Meeting #2		
Date	July 28, 2016	Time	9:00 – 10:30 a.m.
Location	Allegany County Office of Emergency Services (OES)		
Attendees	Karl Graves, Legislator, Allegany County		
	Jeff Luckey, Director, Allegany County Office of Emergency Management and Fire		
	Bonnie VanHousen, Allegany County OES		
	Michelle Denhoff, Planning and Development Specialist, Allegany County Planning Department		
	James VanDewalker, Clerk, Town of Allen		
	Allan Hennard, Highway Superintendent, Town of Allen		
	Bill Begelow, Highway Superintendent, Town of Amity		
	Brad Schiralli, Superintendent of Highways, Town of Bolivar		
	Randy L. Snyder, Deputy Superintendent of Public Works, Village of Cuba		
	Mike Bidwell, Superintendent, Town of Friendship		
	Kevin Slack, Highway Superintendent, Town of Granger		
	Kenny DeRitter, Councilman, Town of Grove		
	Jon Gorton, Supervisor, Town of Grove		
	Dennis Graves, Highway Superintendent, Town of Independence		
	Chris Santangelo, Highway Superintendent, Town of New Hudson		
	Glenn Nickerson, Jr., Highway Superintendent, Town of Scio		
	Brent Platt, Supervisor, Town of West Almond		
Shawn Dunmire, Highway Superintendent, Town of Wirt			
Larry Kaminski, Mobility Management Planner, Ardent Solutions, Inc.			
Tony Subbio, Project Manager, Tetra Tech, Inc.			

Purpose

The purpose of the meeting was to review the results of the risk assessment update. This was the second of two identical meetings held for this purpose.

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Review Risk Assessment

Mr. Subbio reviewed the results of the risk assessment. He informed the attendees that the information presented during the meeting is a high-level overview, and that they could read the hazards profiles on the project website for the detailed analysis. He pointed out that expected impacts are based on Hazards U.S.—Multi-Hazard (HAZUS-MH)

modeling, and may not reflect the County's experience with hazard events. The results of the risk assessment are summarized below, according to each hazard:

- **Dam Failure** – There have been no reported dam failures in Allegany County. The County is home to two high-hazard dams: the Cuba Lake Dam and the Caneadea Dam that could cause catastrophic impacts if they were to fail.
- **Drought** – The County has been in drought conditions four times since 1988, and has experienced near-drought conditions another 20 times. Approximately \$224,000 in crop damages have occurred since 1988. With 784 farms with over 150,000 acres of farmland throughout the County, droughts can have a significant financial impact on the County's residents.
- **Earthquake** – There have been no earthquakes with an epicenter in the County since at least 1973, though earthquakes in 2010 and 2013 were felt in the County. Earthquake impacts have been relatively minor in the County. The 500-year Mean Return Period (MRP) earthquake would result in \$2.4 million in damages and 1,200 tons of debris. No critical facilities would be seriously impacted. The 2,500-year MRP earthquake would displace 12 households, injure six people, cause \$34.2 million in property damages and \$4.3 million in income loss, and generate over 8,000 tons of debris.
- **Flood** – The County has been under a Presidential Disaster Declaration 13 times for flood events; 15 significant floods have occurred since 2010 alone. The risk assessment analyzed the 1-percent annual chance flood and the 0.2-percent annual chance flood, though it only analyzed the population and property exposed to the 0.2-percent annual chance flood. The 1-percent annual chance flood would cause \$118 million in property damages and generate over 10,000 tons of debris. As of May 2016, 395 flood insurance policies are in force in the County. Of those properties with flood insurance policies, 285 are in the 1-percent annual chance floodplain. There have been 138 flood insurance claims since 1978, with \$634,000 in claims paid.
- **Hazardous Materials** – There have been over 1,200 hazardous materials releases since 1984, mostly small quantities of fuel from traffic accidents. Hazardous materials can be released from fixed facilities or in transit. The impacts from a release will depend on the chemical(s) released and the location of the release. The blue lines on the County map that indicate heavy truck traffic throughout the County will be reviewed for accuracy.
- **Landslide** – New York State records indicate that there have been 12 landslides reported in Allegany County. Exposed property value in high-risk areas is estimated to be \$2.8 billion. Expected losses depend on the nature of the landslide.
- **Levee Failure** – There are three levee segments in the County, all in the Town or Village of Wellsville. Impacts of a levee failure would be equivalent to the impacts of a flood in the areas protected by the levees.
- **Pandemic Disease** – The County was affected by a Hepatitis A outbreak in 1985, a Rubella outbreak in the late 1980s, and the 2009 Novel Influenza A (H1N1) Pandemic. The County operated several points of dispensing (POD) during the 2009 pandemic. Areas of the County with dense development are more at risk than rural areas.
- **Severe Storm** – The County was declared a federal disaster area 16 times since 1954 due to severe storms, and has experienced 14 severe storm events since 2010. The 500-year MRP severe storm, a tropical storm, would cause \$138,500 in damages.
- **Severe Winter Storm** – The County was declared a federal disaster area once since 1954 due to winter storms, and has experienced 68 major events since 1960. The entire population and all \$9.3 billion in structure value throughout the County are vulnerable.

- **Terrorism** – There is no history of terrorist events in Allegany County. Public facilities and critical infrastructure are potential targets of terrorists. All individuals and all structures could possibly be impacted by a terrorist event. Impacts will vary, depending on the time, location, and nature of an attack.
- **Utility Failure** – A total of 22 power outages were reported in the County since 1997, all due to other hazards. Impacts include failure of heating and air conditioning, communications failures, food spoilage, and basement flooding. The entire population is exposed to utility failures.
- **Wildfire** – Up to 59 wildfires have occurred in the County between 2000 and 2012, but the County has no record of any major wildfire events. Any property within 1.5 miles from a wildland (e.g., forest) is exposed to the wildfire hazard. Over 34,000 people and 19,000 buildings (\$11 billion in structure and contents value) are in this area.

Risk Ranking

Mr. Subbio reviewed the hazard ranking. Wildfire, Severe Winter Storm, and Severe Storm pose the most risk to the County. Dam Failure, Levee Failure, and Terrorism pose the least risk. Mr. Subbio described the ranking procedure used to rank the hazards. This process is detailed in Section 5.3 of the HMP.

Next Steps

The following next steps were discussed at the meeting:

- Jurisdictions will complete the worksheets and send them to Mr. Luckey and Mr. Subbio.
- The next meeting of the Planning Partnership, to identify mitigation actions to include in the updated HMP, will be scheduled soon.

The meeting adjourned at 10:30 a.m.



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Allegany County
Hazard Mitigation Plan Update
Risk Assessment
Review Meetings

Allegany COUNTY

Agenda

- Welcome
- Review Risk Assessment
- Next Steps
- Questions

Allegany COUNTY

Review Risk Assessment

- **Dam Failure**
 - History
 - No records of dam failures
 - Location
 - 156 dams in the County
 - 2 “high hazard”
 - Impacts
 - Cuba Lake Dam – catastrophic to downstream communities
 - Caneadea Dam/Rushford Lake – 90-foot wall of water; \$20 million in expected damages
 - Probability - unlikely

Allegany COUNTY

Review Risk Assessment

- **Drought**
 - History
 - 4 droughts since 1988
 - Near-drought conditions 20 more times since 1988
 - Impacts
 - Approximately \$224,000 in crop damages since 1988
 - Probability
 - 4 in 29 years – 14% chance each year

Allegany COUNTY

Review Risk Assessment

- **Drought (continued)**
 - Entire population is vulnerable
 - Reduction in firefighting capability
 - No direct effects on structures; may increase vulnerability to wildfires
 - Severe economic impacts on agriculture
 - 784 farms
 - 150,383 acres

Allegany COUNTY

Review Risk Assessment

- **Earthquake**
 - History
 - None epi-centered in the County since 1973
 - Earthquakes in 2010 and 2013 may have been felt in the County.
 - Location
 - A few known fault lines in the County
 - Impacts
 - Shaking
 - Evacuated buildings
 - No damages so far
 - Probability - unlikely

Allegany COUNTY



Review Risk Assessment

- Earthquake (continued)
 - Entire population is exposed
 - Urban areas
 - Elderly
 - Individuals living below the poverty line
 - On soft soils
 - 10,376 people (21.2% of the County population)
 - 5,289 buildings (20.2% of the County total)
 - \$3.2 million in property replacement cost
 - 46 critical facilities



Review Risk Assessment

- Earthquake (continued)
 - 500-year Mean Return Period (MRP) earthquake
 - 1 household displaced
 - 1 injured
 - \$2.4 million in damages
 - \$500,000 in income loss
 - Critical facilities – no significant damages
 - Debris
 - 984 tons of brick/wood debris
 - 225 tons of concrete/steel debris



Review Risk Assessment

- Earthquake (continued)
 - 2,500-year Mean Return Period (MRP) earthquake
 - 12 households displaced; 8 people seeking shelter
 - 6 injured; 1 requiring hospitalization
 - \$34.2 million in damages
 - \$4.3 million in income loss
 - Critical facilities
 - None to moderate damage
 - Loss of functionality for up to 30 days
 - Debris
 - 6,192 tons of brick/wood debris
 - 2,101 tons of concrete/steel debris



Review Risk Assessment

- Flood
 - History
 - 13 Presidential Disaster Declarations
 - 15 events since 2010
 - Location
 - 1% annual chance floodplain
 - 0.2% annual chance floodplain
 - Ice jams
 - Flash flooding



Review Risk Assessment

- Flood (continued)
 - Impacts
 - \$8.8 million in reported property damages
 - Probability
 - 15 events in the last 6 years – 100% chance each year



Review Risk Assessment

- Flood (continued)
 - 1% Annual Chance Floodplain
 - 4,653 people (9.5% of total population)
 - 1,875 buildings (7.2% of total)
 - \$1.20 billion in structure and contents replacement cost value
 - \$118 million in expected losses
 - 36 critical facilities
 - 10,374 tons of debris





Review Risk Assessment

- Flood (continued)
 - 0.2% Annual Chance Floodplain (Exposure Only)
 - 6,392 people (13.1% of total population)
 - 2,902 buildings (11.1% of total)
 - \$1.97 billion in structure and contents replacement cost value
 - 55 critical facilities



Review Risk Assessment

- Flood (continued)
 - Flood insurance statistics (as of May 31, 2016)
 - 395 policies in the County
 - 285 policies in the 1% annual chance floodplain
 - 138 claims
 - \$634,000 in payments



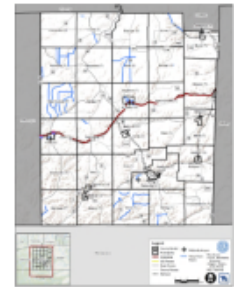
Review Risk Assessment

- Flood (continued)
 - Repetitive Loss (RL)
 - Two or more reported losses over \$1,000 in any 10-year rolling period since 1978
 - 4 total; all are residential
 - Repetitive Loss areas
 - Repetitive loss properties and similar properties nearby
 - In Allegany County, all are in the floodplain



Review Risk Assessment

- Hazardous Materials
 - History
 - 1,209 spill incidents since 1984; 8 major
 - Location
 - Transit
 - Fixed facilities
 - Impacts
 - Contamination
 - Road closures
 - Property damage
 - Cleanup costs
 - Probability
 - 1,209 incidents in 33 years - 100% chance each year



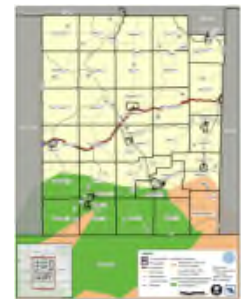
Review Risk Assessment

- Hazardous Materials (continued)
 - Entire population is vulnerable
 - Injuries/fatalities from exposure to spilled chemicals
 - Spills in transit
 - Spills from fixed facilities
 - Structures
 - Inaccessibility
 - Contamination
 - Fire/explosion



Review Risk Assessment

- Landslide
 - “Incidence” – based on history of landslides
 - “Susceptibility” – depends on slope angle and geology
 - History
 - 12 landslides listed in NYS records, but no details
 - Location
 - Southern end of the County





Review Risk Assessment

■ Landslide (continued)

- Impacts
 - Home collapse; exposed underground utilities
- Probability
 - Overall low
- Population exposed
 - Moderate Incidence: 2,347 (4.8%)
 - Moderate Susceptibility/Low Incidence: 8,043 (16.4%)
- Building exposure
 - Moderate Incidence: 1,150 buildings (4.4%); \$600 million (4.1%)
 - Moderate Susceptibility/Low Incidence: 4,604 buildings (17.6%); \$2.2 billion (15.3%)
- 24 critical facilities exposed



Review Risk Assessment

■ Levee Failure

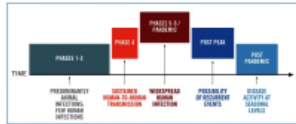
- History
 - No failures
 - 1972 – Hurricane Agnes damaged a levee segment in Wellsville
- Location
 - Wellsville – 3 levee segments
- Impacts
 - Flood impacts in areas protected by the levee
- Probability
 - Unlikely



Review Risk Assessment

■ Pandemic

- Primary pandemic/infectious disease focus – Influenza
 - Differences between pandemic and seasonal influenza
- History
 - Four major pandemics in the last 100 years
 - Hepatitis A outbreak in 1985
 - Rubella outbreak in the late 1980s
- Exposure: Entire County is vulnerable
 - Increased vulnerability in highly/densely populated areas



Review Risk Assessment

■ Severe Storm

- Hail
- Wind
- Lightning
- Thunderstorms
- Tornado
- Hurricane/Tropical Storm



Review Risk Assessment

■ Severe Storm (continued)

- History
 - 16 Presidential Disaster Declarations
 - 14 events since 2010 alone
- Impacts
 - 27 injuries, 0 fatalities since 1993
 - \$5 million in property damage; \$1.2 million in crop damage since 1993
 - Utility failure
- Probability
 - 14 events since 2010 – 100% chance each year



Review Risk Assessment

■ Severe Storm (continued)

- Expected each year
 - \$2.0 million in property damage
 - \$50,000 in crop damage
- Every structure is vulnerable
- HAZUS Model
 - Scenarios
 - 100-year Mean Return Period (MRP) wind event
 - » Maximum peak gusts less than 39 mph (tropical storm)
 - 500-year MRP wind event
 - » Maximum peak gusts between 48-54 mph
 - HAZUS Model Results
 - Nobody displaced
 - \$138,500 in structure damage for the 500-year MRP wind event; \$0 for the 100-year MRP event





Review Risk Assessment

- Severe Winter Storm
 - Heavy Snow
 - Blizzards
 - Ice Storms

Review Risk Assessment

- Severe Winter Storm (continued)
 - History
 - 1 Presidential Disaster Declaration - 1990
 - 68 major events since 1960
 - Impacts
 - \$2.7 million in property damage
 - \$40,000 in crop damage
 - Accidents
 - Travel delays
 - Probability
 - 68 events in 56 years – 100% chance each year

Review Risk Assessment

- Severe Winter Storm (continued)
 - Entire population is vulnerable
 - Increase in traffic accidents
 - Overexertion
 - Hypothermia
 - Reduction in ability to access emergency services
 - All buildings exposed - \$9.3 billion
 - Loss of functionality of critical facilities
 - Economic impacts from loss of business

Review Risk Assessment

- Terrorism
 - History
 - No events in the County
 - Location
 - Public facilities
 - Critical infrastructure
 - Impacts
 - Injuries/fatalities
 - Fear
 - Property damage
 - Probability
 - Rare

Review Risk Assessment

- Terrorism (continued)
 - Urban areas are more vulnerable than rural areas
 - All buildings exposed
 - Expected loss depends on location and nature of attack
 - Critical facilities may be targets
 - Entire economy is exposed
 - Damages to businesses
 - Loss of productivity

Review Risk Assessment

- Utility Failure
 - History
 - 1 Presidential Disaster Declaration - 2003
 - 22 incidents since 1997
 - Primarily caused by other hazards
 - Impacts
 - HVAC failure
 - Communications failure
 - Food spoilage
 - Basement flooding
 - Probability
 - 22 incidents in the last 20 years – 100% chance each year



Review Risk Assessment

- **Utility Failure (continued)**
 - Entire population is vulnerable
 - Food safety
 - Carbon monoxide exposure from generators
 - Individuals dependent on medical equipment
 - Access to potable water
 - Cost of spoiled food/goods
 - Cost to government and community service groups



Review Risk Assessment

- **Wildfire**
 - History
 - Up to 59 between 2000-2012 according to NYS
 - No County records
 - 95% of all wildfires are caused by human activity
 - Scio and Wellsville (T) have had the most instances
 - Location
 - Wildland/urban interface
 - Interface
 - Intermix
 - 1.5 miles from wildland



Review Risk Assessment

- **Wildfire (continued)**
 - Impacts
 - Property damage
 - Injuries/fatalities
 - Loss of natural resources
 - Increased risk of flash flooding
 - Probability
 - Major events are rare



Review Risk Assessment

- **Wildfire (continued)**
 - Population exposed
 - 34,534
 - 70.6% of County
 - Building stock
 - 19,029 buildings exposed
 - \$11 billion in value exposed
 - 75.7% of total building value



Risk Ranking

Hazard of Concern	Probability	Impact	Total = (Probability x Impact)
Wildfire	3	18	54
Severe Winter Storm	3	17	51
Severe Storm	3	16	48
Utility Failure	3	14	42
Drought	3	13	39
Earthquake	3	13	39
Hazmat	3	12	36
Pandemic Disease	3	12	36
Landslide	3	11	33
Flood	3	9	27
Dam Failure	2	12	24
Levee Failure	2	12	24
Terrorism	1	18	18



Next Steps

- Complete Worksheets
- Next Meeting – Develop Mitigation Actions





Questions?

Thank you for your time!



Contacts



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ALLEGANY COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT
Risk Assessment Review Meeting #2 Agenda

Thursday, July 28, 2016 | 9:00 – 11:00 a.m.

1. Welcome

2. Review Risk Assessment

- a. Dam Failure
- b. Drought
- c. Earthquake
- d. Flood
- e. Hazardous Materials
- f. Landslide
- g. Levee Failure
- h. Pandemic Disease
- i. Severe Storm
- j. Severe Winter Storm
- k. Terrorism
- l. Utility Failure
- m. Wildfire

3. Risk Ranking

4. Next Steps

- a. Complete Worksheets
- b. Next Meeting – Develop Mitigation Actions

5. Questions

Allegany County Hazard Mitigation Plan (HMP)

Risk Ranking – Countywide

Hazard of Concern	Probability	Impact	Total = (Probability x Impact)
Wildfire	3	18	54
Severe Winter Storm	3	17	51
Severe Storm	3	16	48
Utility Failure	3	14	42
Drought	3	13	39
Earthquake	3	13	39
Hazmat	3	12	36
Pandemic Disease	3	12	36
Landslide	3	11	33
Flood	3	9	27
Dam Failure	2	12	24
Levee Failure	2	12	24
Terrorism	1	18	18

Risk Ranking – By Jurisdiction

Jurisdiction	Hazard Ranking												
	Dam Failure	Drought	Earthquake	Flood	Hazmat	Landslide	Levee Failure	Pandemic Disease	Severe Storm	Severe Winter Storm	Terrorism	Utility Failure	Wildfire
Town of Alfred	6	39	24	18	36	12	6	36	48	51	18	42	36
Village of Alfred	6	39	24	18	36	12	6	36	48	51	18	42	36
Town of Allen	6	39	24	18	36	12	6	36	48	51	18	42	36
Town of Alma	6	39	24	18	36	36	6	36	48	51	18	42	36
Town of Almond	6	39	24	27	36	12	6	36	48	51	18	42	36
Village of Almond	6	39	24	54	36	12	6	36	48	51	18	42	36
Town of Amity	6	39	39	27	36	12	6	36	48	51	18	42	36
Town of Andover	6	39	24	18	36	14	6	36	48	51	18	42	36
Village of Andover	6	39	24	54	36	12	6	36	48	51	18	42	36
Town of Angelica	6	39	27	18	36	12	6	36	48	51	18	42	36
Village of Angelica	6	39	33	18	36	12	6	36	48	51	18	42	36
Town of Belfast	6	39	48	18	36	12	6	36	48	51	18	42	36
Village of Belmont	6	39	24	18	36	12	6	36	48	51	18	42	36
Town of Birdsall	6	39	24	27	36	12	6	36	48	51	18	42	36
Town of Bolivar	6	39	33	18	36	36	6	36	48	51	18	42	36
Village of Bolivar	6	39	48	18	36	36	6	36	48	51	18	42	36
Town of Burns	6	39	39	18	36	12	6	36	48	51	18	42	36
Village of Canaseraga	6	39	48	27	36	12	6	36	48	51	18	42	36
Town of Caneadea	24	39	48	18	36	18	6	36	48	51	18	42	36
Town of Centerville	6	39	27	18	36	12	6	36	48	51	18	42	36
Town of Clarksville	6	39	24	18	36	36	6	36	48	51	18	42	36
Town of Cuba	24	39	27	18	36	12	6	36	48	51	18	42	36
Village of Cuba	6	39	24	18	36	12	6	36	48	51	18	42	36

Jurisdiction	Hazard Ranking												
	Dam Failure	Drought	Earthquake	Flood	Hazmat	Landslide	Levee Failure	Pandemic Disease	Severe Storm	Severe Winter Storm	Terrorism	Utility Failure	Wildfire
Town of Friendship	6	39	27	18	36	12	6	36	48	51	18	42	36
Town of Genesee	6	39	48	18	36	36	6	36	48	51	18	42	36
Town of Granger	6	39	24	18	36	12	6	36	48	51	18	42	36
Town of Grove	6	39	24	21	36	12	6	36	48	51	18	42	36
Town of Hume	6	33	48	21	36	12	6	36	48	51	18	42	28
Town of Independence	6	39	39	18	36	36	6	36	48	51	18	42	36
Town of New Hudson	6	39	27	18	36	12	6	36	48	51	18	42	36
Town of Rushford	6	39	48	18	36	36	6	36	48	51	18	42	36
Village of Richburg	6	39	48	18	36	12	6	36	48	51	18	42	36
Town of Scio	6	39	24	30	36	18	6	36	48	51	18	42	54
Town of Ward	6	39	24	18	36	12	6	36	48	51	18	42	36
Town of Wellsville	6	39	30	21	36	36	24	36	48	51	18	42	54
Village of Wellsville	6	39	36	36	36	12	24	36	48	51	18	42	54
Town of West Almond	6	39	24	18	36	12	6	36	48	51	18	42	36
Town of Willing	6	39	39	27	36	36	6	36	48	51	18	42	36
Town of Wirt	6	39	24	18	36	36	6	36	48	51	18	42	36
Allegany County	24	39	39	27	36	33	24	36	48	51	18	42	54

Thursday, July 28, 2016 | 9:00 – 11:00 a.m.

NAME	TITLE	AGENCY/ORGANIZATION	E-MAIL	TEL.
Jon Fortson	Supervisor	Town of Grove	jonfortson@yahoocom	607-545-6587
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James Vandewalker	Clerk	Town of Allen	townclerk@townofallen.org	585-567-8320
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Bill Bigelow	Hwy Supt	Town of Amity	amityhwy@gmail.com	585-268-5517
Tony Subbio	PM	Tetra Tech	tony.subbio@tetratech.com	717-545-3580
Shawn Dunmire	Hwy Supt	Town of Wirt	townofwirt@wy.com cc YAHOO.COM	585-928-2026 585-928-2026



Thursday, July 28, 2016 | 9:00 - 11:00 a.m.

NAME	TITLE	AGENCY/ORGANIZATION	E-MAIL	TEL.
Glenn Mickerson	Highway Superintendent	Town of Scio	townofscio@gmail.com	585-593-1490
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Bonnie VanHusen	AC OES	Admin assistant	Vanhusenb@alleganyco.com	585-268-5290
BRAD SCHIRALLI	Hwy Superintendent	T/O Bolivar	townofbolivar@gmail.com	585-528-1181
BRENT PLATT	TOWN SUPERVISOR	T/O WEST ALMOND	BAPWALMOND@MAKES85	466-7800
RANDY L SWIDA	Village of Derby Cuba	V/O CUBA	SINIDE101241@gmail.com	(585) 968-2487
Chris Santangel	Town of Hwy NEW HUDSON Supt	TOWN OF NEW HUDSON	NewHudsonHwy@ny.gov	307-6783
Dennis Craven	Supt INDEPENDENCE	INDEPENDENCE	dengravel@gmail.com	585 610 5163



Thursday, July 28, 2016 | 9:00 – 11:00 a.m.

NAME	TITLE	AGENCY/ORGANIZATION	E-MAIL	TEL.
Larry Kaminski	Mobility Management Planner	Ardent Motion Solutions, Inc.	Kaminski@ardentnetwork 003	505-593-5223 x14
Jeff Luckey	Director	Allegheny Co. OES	luckeyj@alleghenyco. com	585-268- 5290

