

System Name: Mercer County Modification**Case # 18-M-217****Date Filed: 4/24/18****Department Review of Plan Modification**

Requirement		Information Included	Staff Comment
Contact and 9-1-1 System information		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Jim McIntyre 309-582-5533 office 309-221-6287 cell MCILE911@hotmail.com
Verification		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Letter of Intent		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Plan Narrative (if incorporating an NG9-1-1 solution, narrative must include the following:)		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	Name of certified 9-1-1 system provider	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Mercer County is currently using Frontier as their 9-1-1 System provider, but will be switching to Geneseo Communications.
	Explanation of the national standards, protocols and/or operating measures that will be followed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	The new network follows NENA I3 Standards and protocols with the exception of geospatial call routing which is still under development with the industry. Once the geospatial call routing is available, this service will be utilized as well. The network meets the FCC diversity and redundancy requirements for 9-1-1. The network is diverse and redundant between ESRP's and the PSAP.
	Explanation of measures taken to create a robust, reliable and diverse/redundant network and whether other 9-1-1 Authorities will be sharing the equipment	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Geneseo Communications is upgrading its 9-1-1 legacy selective router to two redundant ESRP's that are capable of providing IP based 9-1-1 selective routing and call delivery. These ESRP's are located in the Geneseo Central Office and the Cambridge Central Office. There are also two Legacy Network Gateways' (LNG's) that are located at each ESRP site for carriers to connect their trunks for carrying 9-1-1 traffic to Mercer County. The 9-1-1 network will be IP based from the Geneseo ESRPs to the PSAP and is fully redundant.
	Explanation of how the existing 9-1-1 traditional legacy wireline, wireless and VoIP network, along with the databases, will interface	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Geneseo Communications has notified and requested that all carriers install new SS7 or SIP trunks to each LNG/ESRP. Mercer County is transferring its database storage from Frontier Communications to Geneseo who will be providing hosted NG9-1-1 database storage using INdigital telecom's NG9-1-1 database. Wireless and VoIP calls

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	and/or be transitioned into the NG9-1-1 system		will continue to use third party database providers for location information as they do today.
	Explanation of how split exchanges will be handled	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Calls will be routed to the appropriate PSAP just as they are today. There will be no changes to how split exchanges are currently routed.
	Explanation of how the databases will be maintained and how address errors will be corrected and updated on a continuing basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Mercer County will also be transferring their 9-1-1 database from Frontier to Geneseo Communications. Geneseo Communication will be providing a hosted NG911 database storage device using INdigital telecoms NG911 database.
	Explanation of who will be responsible for updating and maintaining the data, at a minimum on a daily basis Monday through Friday	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Geneseo will also provide 9-1-1 database processing services. Wireless and VoIP calls will continue to use 3rd party database providers for location information as they do today.
	Explanation of security measures placed on the IP 9-1-1 network and equipment to safeguard it from malicious attacks or threats to the system operation and what level of confidentiality will be placed on the system in order to keep unauthorized individuals from accessing it	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	The IP network that will be used to deliver 9-1-1 calls to the PSAP is private. There is no outside access. Administrative and maintenance access to equipment is password protected.
Financial Information			The projected annual recurring network costs decreases from \$57,635 to \$50,674.32. This modification to the network creates an annual savings in network cost to the State of \$6,960.68.
	Annual recurring 9-1-1 network costs prior to modification	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	\$57,635
	Projected annual recurring 9-1-1 network costs after modification	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	\$50,674.32
	Installation cost of the project	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	\$10,042.36
	Anticipated annual revenues	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	\$460,000
Five Year Strategic Plan		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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Communities Served	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Participating Agencies	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Adjacent Agencies	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Carrier Listing	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Attachments	If changes necessitate new versions	
<input type="checkbox"/> Ordinances	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Not needed.
<input type="checkbox"/> Intergovernmental agreement(s)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Not needed
<input type="checkbox"/> Contracts	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<input type="checkbox"/> Back-up PSAP agreement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Backup PSAP is changing from Monmouth Police Department in Warren County to Henry County 9-1-1. However, the agreement only provides a method to return calls to the Mercer County PSAP. If the PSAP has to be evacuated, Henry County has no method to dispatch Mercer County agencies.
<input type="checkbox"/> Network Diagram	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<input type="checkbox"/> Call-Handling and Aid outside jurisdictional boundaries agreements	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Not needed
Test Plan	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Conclusions: Mercer County's plan modification to change its 911 system provider and implement a Next Generation 9-1-1 System meets the technical requirements pursuant to the 83 Ill. Adm. Code Part 1325. Mercer County has also proposed to change its backup PSAP from Warren County to Henry County. The Henry County PSAP meets all the requirements for a PSAP as prescribed in Section 1325.415(i) of Part 1325 as it is currently a primary PSAP in the Henry County 9-1-1 system. However, Henry County has no way of communicating to Mercer County except for transferring the caller back to Mercer County. If the Mercer County PSAP has to be evacuated there doesn't appear to be a plan of operation

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regarding how Henry County PSAP would dispatch Mercer County public safety agencies. Mercer County was contacted about this issue. Mercer County agreed to contact Henry County so that they might establish a better method of dispatch in the event that Mercer County PSAP is not functional.

Reviewed by: Marci Elliott

Date: 5/1/18