System Name: Whiteside County ETSB
Case # 20-M-260
Date Filed: 3/31/20

Department Review of Plan Modification

Requirement	Information Included	Staff Comment
Contact and 9-1-1 System information	Yes ☒ No ☐	Karl Kovarik 200 East Knox Morrison, IL 61270 kkovarik@whiteside.org 815-772-5262 815-499-6065
Verification	Yes ☒ No ☐	
Letter of Intent	Yes ☒ No ☐	
Plan Narrative (if incorporating an NG9-1-1 solution, narrative must include the following:)	Yes ☒ No ☐	Whiteside County ETSB's filing is a modification plan to implement a Next Generation 9-1-1 (NG9-1-1) System and to change its 9-1-1 System Provider from AT&T to NG-9-1-1, Inc. The Whiteside County system has two PSAPs: the Whiteside County Sheriff's Office PSAP which has two answering positions and the Twin City Communications Center PSAP which has four answering positions. The two PSAPs back each other up.
	Name of certified 9-1-1 system provider	Yes ☒ No ☐ N/A ☐	The ICC has advised that because Comtech Telecommunications Corp. has acquired NG9-1-1, Inc., they do not need to do anything further to qualify as a certified system provider. They need only to be DBA NG-9-1-1, Inc. (per Matt Harvey email, 4/15/20)
	Explanation of the national standards, protocols and/or operating measures that will be followed	Yes ☒ No ☐ N/A ☐	The Whiteside County 9-1-1 design is IP-based and is fully compliant with current NENA i3 standards. It is geographically diverse and has redundant configuration and design to avoid any single points of failure.
	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 ☒ No ☐ N/A ☐	Whiteside County's new 9-1-1 service provider, NG-911, Inc., has contracted with Syndeo in order to provide the ESInet in the NINGA project. There are two geographically diverse, fully redundant. NG-911, Inc. operated data centers which house the NG9-1-1 core services. One data center is located at the DeKalb County Sheriff's

		Department Jail Annex, 180 E. Exchange Street, Sycamore, IL, and the second data center is located at the Belvidere Fire Department, 353 East 6th Street, Belvidere, IL. The NG9-1-1 system design not only serves the Whiteside County ETSB, but will host multiple remote PSAPs in multiple 9-1-1 jurisdictions. The other 9-1-1 authorities involved are Boone, Bureau, DeKalb, Carroll, Jo Daviess, Ogle, Stephenson and Winnebago Counties who have joined in a collaborative effort to migrate to NG9-1-1 service and share resources in an effort to reduce cost. This group is called 9-1-1 Northern Illinois Next Generation Alliance (NINGA). Each 9-1-1 authority will file individual modified plans.
Explanation of how the existing 9-1-1 traditional legacy wireline, wireless and VoIP network, along with the databases, will interface and/or be transitioned into the NG9-1-1 system	Yes ☒ No ☐ N/A ☐	The NG9-1-1 system will handle calls from all carriers that are answered today. Carriers may connect to the ESInet at various points on the fiber ring. The points of interconnection (POI) have been mutually agreed upon by NG-911, Inc., Syndeo and each of the carriers. Carriers were also given the choice between legacy (SS7/ISDN) or newer protocols for trunk signaling (SIP) connectivity at the POI. The NG9-1-1 architecture is comprised of an ESInet which will connect the PSAP using IP signaling. The system will also enable users who are hearing impaired, speech impaired, non-English speaking and text to communicate with 911. Private Switch customers will also be migrated to the new network.
Explanation of how split exchanges will be handled	Yes ☒ No ☐ N/A ☐	Split exchanges will be routed the same as they are today.
Explanation of how the databases will be maintained and how address errors will be corrected and updated on a continuing basis	Yes ☒ No ☐ N/A ☐	Whiteside County has designed and purchased a NENA i3 standards-based system. The system will provide ALI, ANI, and selective routing to the PSAPs using dynamic routing. In addition, the system will feature geo-spatial, policy-based functionality. All database elements comply with NENA data formats for ALI, MSAG and GIS. NG-911, Inc. will ensure the database records are received from each carrier and reviewed for location accuracy, accepted, validated and integrated into the active working records. Carriers will transmit the

		database updates to NG-911, Inc. who will work closely with each carrier directly on database updates. Database updates will be completed on a daily basis. NG-911, Inc. will utilize multiple logic checks that guard against invalid ALI updates and increase the reliability of the data. The database system supports direct service order entry, manual update as well as the import and export of NENA format. NG-911, Inc. will maintain the database in a manner that ensures that no one else can alter the data. GIS coding will be added to all service order records that update the ALI.
Explanation of who will be responsible for updating and maintaining the data, at a minimum on a daily basis Monday through Friday	Yes ☒ No ☐ N/A ☐	The software will enable NG-911, Inc. to manage the ALI database. The software fully integrates with the NG9-1-1 core services of the NG9-1-1 system and performs data validation, request/response software, data quality and provides real-time communication tools.
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 ☒ No ☐ N/A ☐	A Session Border Controller is being installed in each of the data centers and will provide access control for protection from unwarranted cyber-attacks, denial of service attacks and/or focused network overloads. The design is in accordance with the NENA i3 Standards. Each PSAP will be composed of a number of positions plus security appliances and software necessary to prevent intrusion by unauthorized personnel. Each individual PSAP will have a diverse IP transport network between the remote PSAPs and the system cores. The system has varying levels of security and administration privileges for managing, configuring, monitoring, maintenance and diagnostic activities. All access to the PSAPs will be restricted with a code access. The computer network is password secured and all workstations are updated regularly and scanned for threats with security software.
Financial Information		
Annual recurring 9-1-1 network costs prior to modification	Yes ☒ No ☐	$59,180.28

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	Projected annual recurring 9-1-1 network costs after modification	Yes ☒ No ☐	$49,359.52
	Installation cost of the project	Yes ☒ No ☐	$116,250.00
	Anticipated annual revenues	Yes ☒ No ☐	$842,101.00
Five Year Strategic Plan		Yes ☒ No ☐	
Communities Served		Yes ☒ No ☐	
Participating Agencies		Yes ☒ No ☐	
Adjacent Agencies		Yes ☒ No ☐	
Carrier Listing		Yes ☒ No ☐	
Attachments		If changes necessitate new versions	
	Ordinances	Yes ☒ No ☐	Included the original ordinance establishing the Whiteside County ETSB.
	Intergovernmental agreement(s)	Yes ☐ No ☒	Not applicable
	Contracts	Yes ☒ No ☐	
	Back-up PSAP agreement	Yes ☒ No ☐	
	Network Diagram	Yes ☒ No ☐	
	Call-Handling and Aid outside jurisdictional boundaries agreements	Yes ☒ No ☐	

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Test Plan	Yes ☒ No ☐	

Conclusions:

The Whiteside County modification plan meets the requirements set forth in 83 Illinois Administrative Code Part 1325.205 for a modification plan.

Reviewed by: Stacy Ross
Date: April 14, 2020