LITERATURE SURVEY

HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT

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TITLE	AUTHOR	METHODOLOGY	RESULTS
Monitoring Networking and Information Collection Technology of Hazardous Chemicals Based on Converged Communication	Jixing Yang, Nan Zhao, Yudong Fang.	This combines information security and video intelligence analysis functions to achieve accurate, real-time, dynamic, and safe collection of video data, IoT data, system abnormal alarm data, and violation data in the entire process of hazardous chemical production and finally realize wide-area perception and smart monitoring.	Through the comprehensive research of multi-mode and multi-protocol fusion communication technology and information security technology, a highly integrated intelligent data acquisition device has been developed.
Monitoring Of Industrial Electrical Equipments	A.Amudha, M. Siva Ramkumar,K. Balachander, G.	In this system, an IOT-based industrial problem detection project was created where	A current sensor measures the overall amount of current consumed by the

	Emayavarambban,Gopalakrishnan N,Saravanan S,Suresh Mt	data is sent to a remote location through the IoT. 'Things' can communicate with sensors, circuits, programs, and accessibility through the IOT with less human interaction. Use this tool to locate the hottest area, which may be assessed by determining the most hazardous area for people or production.	industrial sector. If the power exceeds the threshold and the load is tripped, the IOT cloud app will notify the appropriate person.
New alternatives to manage hot surface ignition temperatures for trace heating in explosive atmospheres.	Dan Caouette, Jim Parks, Matt Aurini	In many cases, the designs that are difficult to install, maintain, and often increase the cost of the overall solution. This paper will present alternative methods to deal with these difficult situations using recently improved heater constructions and controller	Recent advancements have notably improved the options available to THS designers.The resulting benefits include lower installation and maintenance costs and a better match of power output needs to the system heat

		algorithms.	loss.
Security for the Industrial IoT: The Case for Information-Centric Networking	Michael Frey,Cenk Gundogan, Peter Kietzmann, Martine Lenders, Hauke Petersen, Thomas C. Schmidt,Felix Juraschek, Matthias Wahlisch	In this paper, we analyze the potentials of ICN for providing a secure and robust networking solution for constrained controllers in industrial safety systems. We showcase hazardous gas sensing in widespread industrial environments, such as refineries, and compare with IP-based approaches such as CoAP and MQTT.	ICN,which abandons the end to-end paradigm and provides in-network caching, overcomes common attack vectors in the current Internet.In future work, real-world deployment and experimentation is needed to evaluate and harden the contributions ICN can make towards a safe and secure industrial Internet of Things.
Monitoring of Hazardous Gasses in the Process Industries Through the	P. Ragavi, Dr.K.R. Valluvan	The proposed system is made up of monitoring and alerting systems through IoTs. Here, the dangerous, toxic and	In this paper, a system is designed using IOT to detect toxic and flammable gasses and its risks are

Internet		flammable gasses are sensed using individual gas sensors and an Arduino UNO controller and are displayed in ppm using a LCD. When the value exceeds the limited range then an alarm is put on. The IoTs provides a proper access to values by an authorized person and governmental organization.	identified using advanced sensors. This system gives an instantaneous alarm during the excessive emission of hazardous gasses. The system is more flexible and low cost so that it can be implemented in any of the process industries.