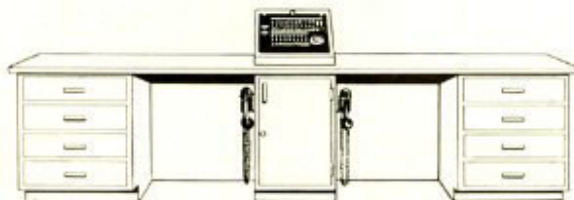
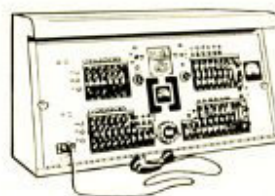
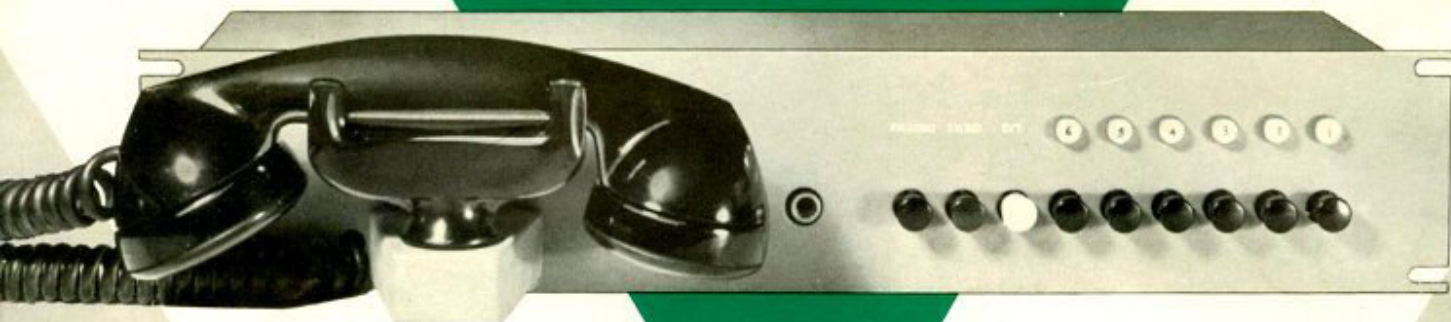
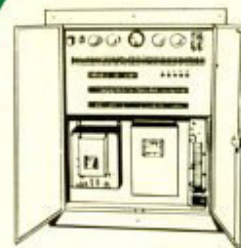


# LORAIN

## RADIOTELEPHONE and SWITCHBOARD COMMUNICATION SYSTEMS

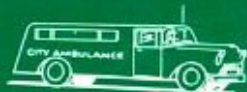


Made by the  
builders of  
**LORAIN MARINE  
RADIOTELEPHONES**

*Serving the Great Lakes since 1934*

For use in:  
**INDUSTRIES  
LABORATORIES  
MINES  
UTILITIES  
POLICE AND  
FIRE DEPARTMENTS  
RIVER AND  
LAKE VESSELS  
SCHOOLS**

# About our experience



## **LORAIN has built land radiotelephone equipment and custom switchboards for utilities, municipalities and government departments**

Our experience includes large and small systems in three classifications: (1) For intercommunication within a plant; (2) For interconnection with radio-equipped vehicles and intercommunication within a plant; (3) For interconnection with telephone central office lines, in addition to intercommunication with mobile telephones and all telephones within a plant.

## **LORAIN has built marine radiotelephones for the Great Lakes fleets since 1934. LORAIN operates four shore stations**

LORAIN introduced marine radiotelephone service to the Great Lakes in 1934. Today more than 85% of the large vessels of American Registry use LORAIN equipment. From the first single-channel set, we have progressed to 8-channel AM radiotelephones and 8-channel VHF (FM) radiotelephones. Both are controlled from a single telephone subset. We also operate four shore stations, located at Lorain and Geneva, Ohio, Port Washington, Wisconsin, Duluth, Minnesota, and maintain a large, efficient service organization.

## **Our engineers are trained telephone men, as well as radio specialists**

Full knowledge of all types of telephone central office equipment is assurance that our equipment will be designed to meet the various telephone requirements in different cities or villages.

## **LORAIN equipment will match the standards of any radio or telephone communication system**

The components used in our switchboards or radiotelephones are precisely assembled and thoroughly tested. Highest quality of equipment is specified throughout.

## **Our service is backed by more than 20 years of experience. Call us about your problems**

We have been able to solve communication problems for customers where others have failed. We do not try to engineer a "standard" type of equipment for an installation unless—as in cases like police radio systems—a "standard" system may be the best answer.

We have the knowledge to design a system for you, and the experience to build and service it.

### **THE LORAIN COUNTY RADIO CORPORATION**

**203 Ninth Street • Lorain, Ohio**

**Telephone: CHerry 4-1195**

## PACKAGE OR CUSTOM-MADE SYSTEMS

Our job begins when the needs of your particular communications problem cannot be met by your local telephone company



### Custom-made

Over the Cleveland Electric Illuminating Co. switchboard and radiotelephone system shown above, two men handle messages to a fleet of about 140 cars, line and service trucks, and interconnect the mobile radiotelephones with various office dispatching stations. Overflow positions not shown in the photo are manned for emergency use during storms or heavy traffic periods. (More photos of this on page 6).

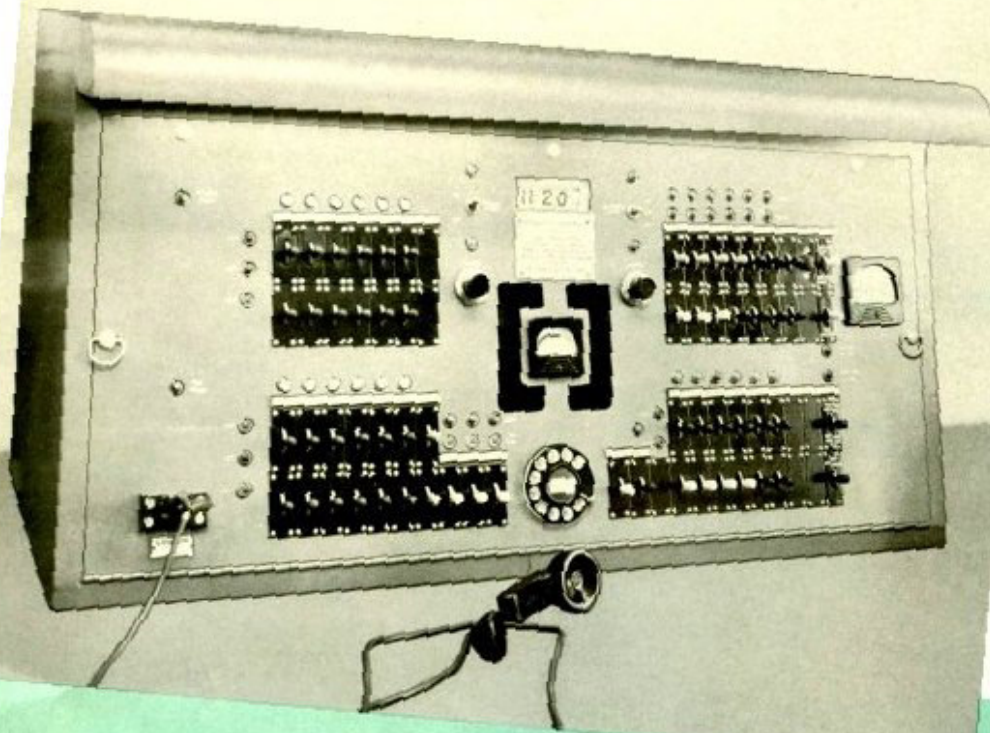
The specifications for a large system such as this require that equipment be specially designed.

### Package-system

This police and fire switchboard and radiotelephone does a job which formerly required three separate telephones, a radio microphone, and a loud speaker. Equipment such as this can be ordered as a "package" for many applications, as described on the following page.



**Police and Fire  
Department  
Radiotelephone  
and Switchboard  
can also be used  
by fleets of  
service vehicles,  
taxis, etc.**



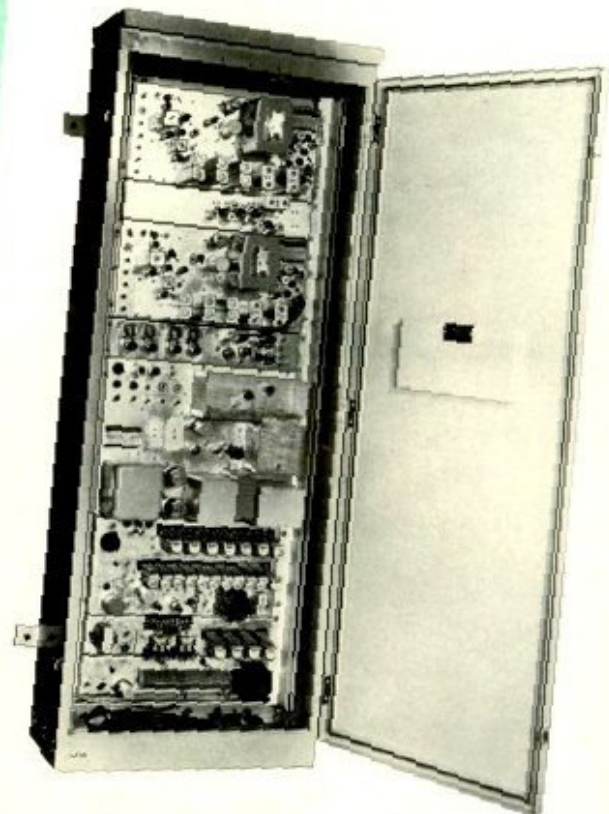
A common switchboard requiring a single operator to handle all functions lowers operating costs for municipalities. The system can be modified easily for industrial or commercial use.

This switchboard and radiotelephone system enables one operator to easily handle the following:

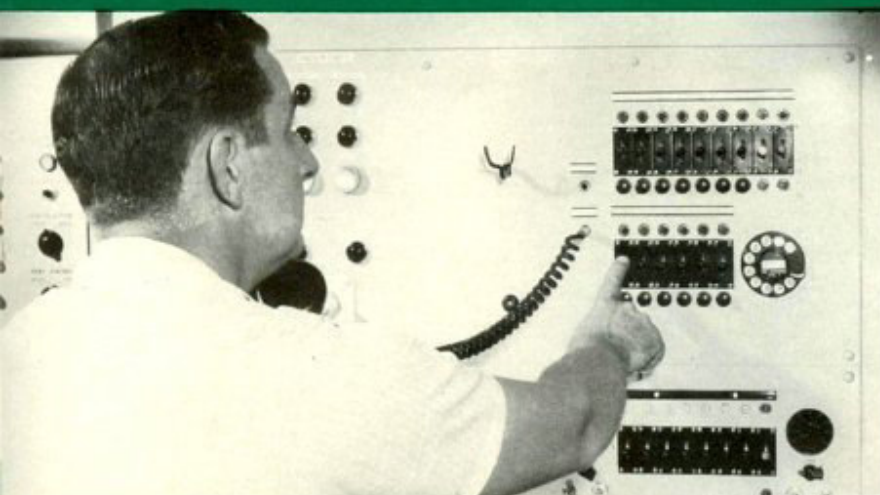
1. Answering or interconnection of 12 telephones of the PBX.
2. Connection to three public telephone lines.
3. Control of the radio equipment serving all police vehicles.
4. Connection to all police reporting lines.
5. Signalling by visual or audible means over six call line circuits.
6. Facilities for testing all lines.

This LORAIN switchboard and radio will fit into many types of installations.

Compact radiotelephone set is  
26" wide, 56" high, and 20" deep.

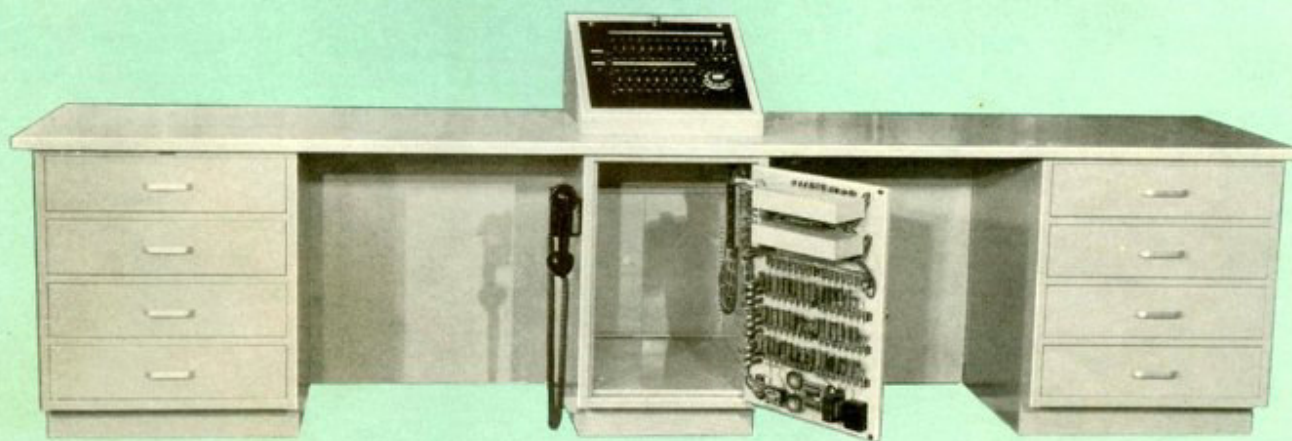


# Special switchboard systems like these are adaptable to laboratories, mills, chemical or petroleum industries, etc.



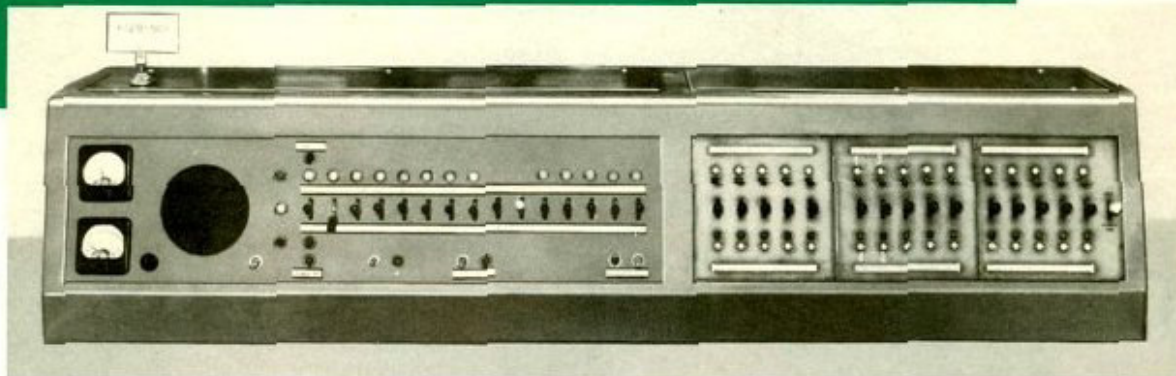
Fast intercommunication was the requirement in this test laboratory installation. The photo at the left shows a custom-built panel which incorporates key equipment, push-buttons, lights, audible signals, dials and controllable volume.

At the right is an emergency signalling switchboard for a supersonic wind tunnel. There is nothing like this in any equipment supplier's catalog. It was all tailor-made by LORAIN.



This twin desk with the switchboard mounted in the center over the equipment cabinet was designed and built by LORAIN. It provides added work space and accessibility to two operators.

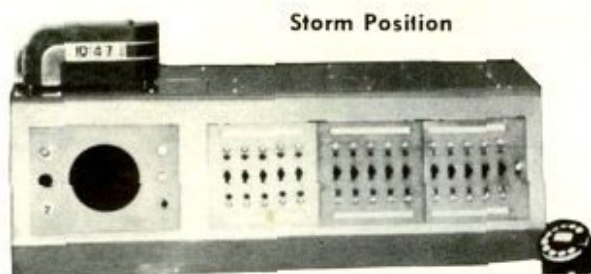
# Land-Mobile Radiotelephone System is suitable for mines, oil fields, utilities, and large-area plants



By combining radiotelephone service with a custom-designed switchboard, fast communications are possible between departments—between departments and vehicles—between vehicles—and all connectible to outside central office lines if desired.

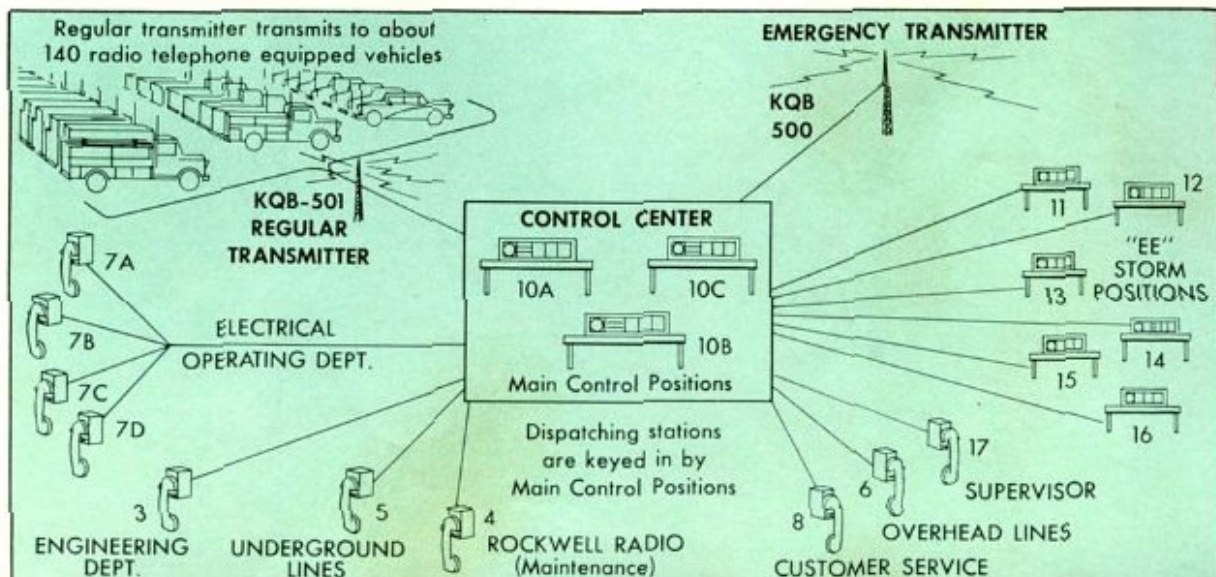
Specially designed communication systems save time and money, and increase efficiency, in such varied fields as utilities, mines, oil refineries and fields, laboratories, large factories, etc.

The schematic drawing below shows how the equipment pictured on this page serves the Cleveland Electric Illuminating Company in Cleveland, Ohio.



Storm Position

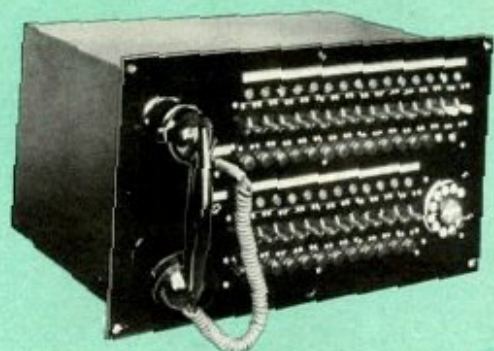
Cleveland  
Electric  
Illuminating  
Company  
Mobile  
Radiotelephone  
System,  
Cleveland  
District



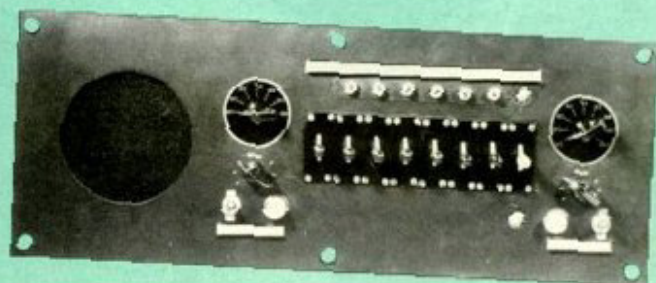
# Special equipment of all types



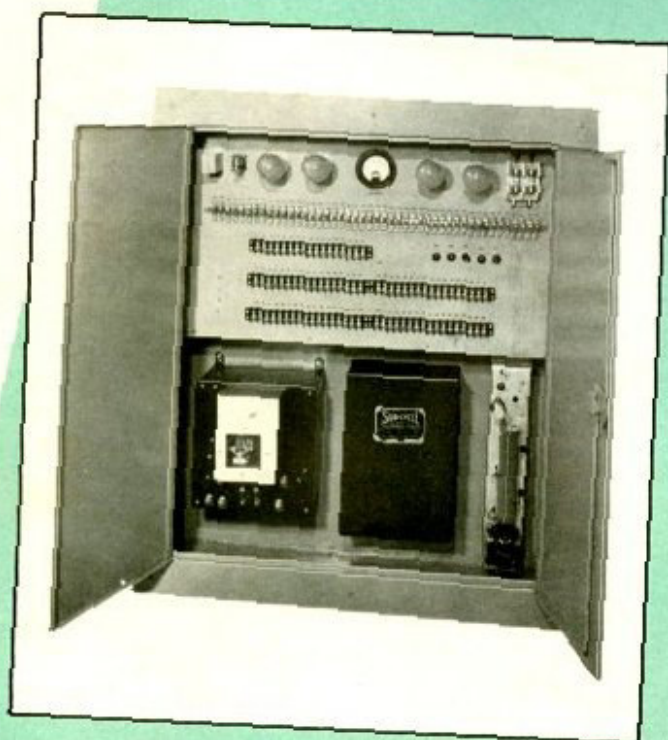
Remote-controlled stations



25-line special switchboard



Paging and intercom system



Power distribution board



Testing 8-channel AM  
marine radiotelephone

**WHERE  
RELIABILITY  
IS OF GREATEST  
IMPORTANCE!**

National Steel's ERNEST T. WEIR is one of hundreds of Great Lakes vessels equipped with LORAIN radiotelephones.

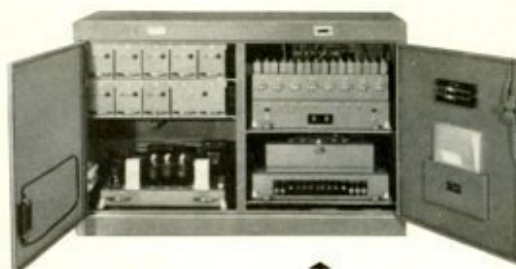


**Lorain Marine Radiotelephones are used by more than 85%\* of the large Great Lakes vessels**

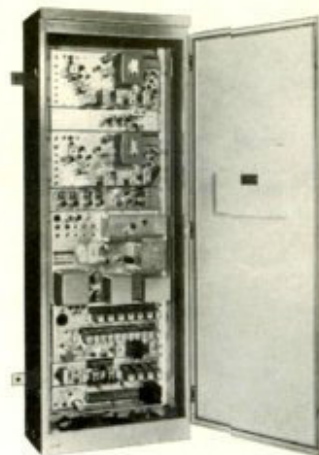
\*American Registry

## 16 Channels

The LORAIN AM and VHF radiotelephones together furnish 16 channels for Great Lakes marine communication. The AM LC-100-8 is used for long range calls. It provides 2 ship-to-ship channels and 6 ship-to-shore channels. The MC-261 VHF radiotelephone is used for short range calls. It provides static-free transmission up to 35 miles between ships, and up to 50 miles to shore stations, over 5 ship-to-ship channels and 3 ship-to-shore channels.



LC 100-8 AM  
Radiotelephone



MC-261 VHF  
Radiotelephone



The towboat Gene C. Hutchinson is a river user of LORAIN marine radiotelephones.

Selector key allows same control unit to be used for AM and VHF radiotelephones.



Printed in U.S.A.