

# SAFETY-PROVEN METHODS

*No service interruptions for maintenance by 'hot sticks' or 'barehand'*

# FOR EHV HOT-LINE WORK

**R**eflected in these selected scenes is recent evidence of the Chance Company's continuing worldwide leadership in extra-high-voltage (EHV) energized line work.

Not only are Chance EHV Hot-Line Tools up on your lines with your crews, we're also up there – in person. Our expert Hot-Line Tool Specialists often teach on-site courses to utility crews using their new Epoxiglas® insulated tools and techniques for the first time to complete repairs.

Since the 1950s, when Chance hot-line training expanded outside the U.S., our



curriculum has added the “barehand” method – special conductive clothing allows a worker to get into a line's electrical field to use hand tools for added efficiency on some close work.

For more than 60 years, Chance has helped develop procedures now adopted as standard practices for the benefits of working “hot,” without power interruptions: Revenue savings, continuous customer service, crew scheduling convenience. In joint efforts with many utilities around the globe to

**Guatemala, at left and above, Ohio Brass suspension-standoff polymer insulators are placed on an energized 220 kV line using Chance insulated tools.**

*As shown on the cover of this issue, instructors on this job were Chance Hot-Line Tool Specialists. On this pilot project, they trained and assisted the crews for what now is a standard procedure at this utility.*

*Without built-in provisions to ascend the concrete poles, Epoxiglas sectional ladders with nylon-strap binders were an innovative solution. They made it possible for all the workers to get into proper positions on the same structure to perform all the necessary tasks.*



**Costa Rica, left, a maintenance crew gets on-the-job training from Chance Hot-Line Tool Specialists atop this 230 kV tower. The V-string of insulators is supported in an Epoxiglas® cradle positioned by wire-tong hot sticks.**



**Tanzania, above, crew raises hook ladder while learning cargo-boom method for live installation of deadend insulators on 230 kV free-standing tower.**

solve maintenance problems, we have been directly involved in the evolution of EHV hot-line work. From our 161 kV work using plastic-coated select-wood tools in the mid-1930s, our experience

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## ***Epoxiglas insulated tools meet IEC-832 and IEC-855.***

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and hot-stick technology have kept pace with ever-higher transmission levels. On both A.C. and D.C. lines we have instructed utility crews on uses of our state-of-the-art fiberglass Epoxiglas brand tools.

### **FROM WOOD STICKS TO VIDEOTAPES**

Committed to providing tools for the electric industry, Chance has taken an active role in the development of EHV hot-line work standards.

Our world-class EHV tools meet not only applicable U.S.-based ASTM, IEEE, NEMA and OSHA standards, but also those of the International Electro-Technical Commission (IEC). Epoxiglas insulated tools meet IEC-832 and IEC-855. Chance barehand suits meet IEC-895.

Throughout the history of EHV energized work, Chance has made a wide range of educational

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contributions. Today that includes ongoing roles in industry guidelines, close attention to specific needs dictated by each customer's line design, an experienced staff of tool demonstrators, a free lending library of "how-to" videotapes, the *Hot Sticks* manual on high-voltage line maintenance and the best line of tools in the industry. ■

***For more information, contact your Hubbell representative or fax (US code 1) 573-682-8714. If you are not receiving TIPS & NEWS magazine on a regular basis, fax (US code 1)573-682-8714 and request your name be added to the free subscription list.***

## ***Chance barehand suits meet or exceed IEC-895.***



***Above, isolated from the ground plane by sitting on Epoxiglas insulated ladder, conductive garments permit "barehand" work directly on the hardware of this energized transmission line.***

***Africa, right and below, teamwork and hot-line tools change suspension and deadend strings.***





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