**AOCe Control System**

**ALKAR Oven Control-Ethernet Enhanced**

- **Industrial Oven Control System**
  - Industrial PLC, computer, components rated for the meat processing environment

- **15” Color Touch Screen**
  - Operating system resides on compact flash card; no rotating media hard drive
  - Log data is stored on microdrive; small device withstand more shock and vibration than standard hard drive
  - USB support for upload; download with portable memory

- **Allen-Bradley MicroLogix 1100 PLC**
  - Built-in web server and display screen
  - Built-in Ethernet port
  - Display screen on PLC

- **Communication HMI to PLC via Ethernet**
  - HMI (Human Machine Interface) Panel can be remotely located up to 150' away from MCP
  - PLC mounted in MCP panel reduces number of field wiring terminations up to 40%
    - Does not apply to upgrade; PLC will mount in HMI panel. This approach saves installation time.
  - Connect to Plant network; looks like another PC on network
  - Print to network printer or local printer in HMI panel
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- **Software**
  - Standard with web server
  - Screen flow designed for user convenience
  - Large buttons make easier for user to navigate
  - Several Levels of security for end-user flexibility
  - Trend data stored on Microdrive; expected capacity 2 years of data
  - History & event data stored on Microdrive
  - All alarms and major events are logged with data, time, user, and comments
  - Setup screen to allow one design to fit multiple types of ovens and chillers
  - Edit run steps, 50 recipes, 15 steps each
  - Color trend printing, alarm printing, event printing, oven set-up printing

- **Miscellaneous**
  - New sloped-top control panel with built-in color printer
  - Incorporated sanitary design hinge and gasket
  - Compact design will offer more mounting options

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**Web Server**

The AOCe has a built-in webserver. This allows the user to view the oven data anywhere in the plant that has an internet browser (i.e., Internet Explorer or Netscape). This includes desktop PCs, PDAs, and advanced cell phones. The AOCe webserver allows the user to view either a duplicate of the actual oven control screens, or a screen that is designed for monitoring purposes only. The screen requires security to logon similar to the oven screen log-on. To use the webserver, the AOCe system has a built-in Ethernet port that would be connected to the plant Ethernet network. With this technology, up to 50 users across the plant can simultaneous monitor each oven’s events, alarms, and performance.