Principles of a Net Control Station

Goals:

To minimize the average duration between the time a message is listed with the Net, and the time the message has been sent. To minimize the time length of the Net.

Objectives	Procedure
NCS Must Receive and	• If unsure, NCS should begin the net with a check of his/her
Transmit well	Sending and Receiving qualities.
	• NCS should be willing to transfer control to another station if NCS
	cannot Hear or Be Heard well.
NCS keeps track of	• Establish and use a logging system
stations on the Net, and	• Station; Time In/Out, traffic destination/count, traffic Listed/Cleared
Net activity	times, Frequency; station/operator capability (location, modes,
	frequencies)
	• enlist another person as a "logger" for the Net Control person, if
	liceded
Handle highest	• Handle in the order of: Emergency, Priority, Welfare, Routine
precedence traffic first	
Minimize the "idle"	• Use other persons to "troubleshoot" the net operation and suggest
time of Stations with	changes to improve the net operation.
Traffic	• Increase the Throughput of the Net (see below)
Minimize the Net Time	• Dispatch stations with fewest number of messages first, given equal
of each Station	precedence
Increase the	 Minimize unnecessary "chatter" on the Net
Throughput of the Net	• Use additional frequency channels for handling traffic
	• Handle "oldest listed" traffic before later listings
	• Create dedicated "Send" and "Receive" stations
	Create dedicated Point-to-Point Stations
	• Use faster modes (CW. Pactor, Packet, PSK-31)
	Recruit additional stations to the Net
	• Divide the Net into two Nets
Use all available	• Ask for help/advice from Net Stations, if needed
resources	• Ask for help from non-Net Stations, if needed
	• Periodically ask for new check-ins to the Net
	• Schedule Net Stations and Net Control Station in multi-hour shifts, to
	minimize operator fatigue

When a Traffic Net Gets Bogged Down

--- Divide the Net into two separate nets; such as...

...Two geographic areas (north/south, city/urban, etc.)

... Two client functions (fire support,/all other support, etc.)

...Direction of traffic flow (In/Out)

...Command Net/Working Net

--- Change the Net Control Station if....

... The NCS is involved with traffic handling or relaying tasks.

... The NCS is not in solid contact with most net stations.

--- Establish a second station at a location which is handling a lot of two-way traffic; one station for "in" traffic, the other station for "out" traffic.

--- Replace hand copy (pen/pencil) with a typewriter or word processor.

--- Increase the communication ability between net stations...

- ... Move the net frequency slightly, to reduce interference
- ... Move the net frequency to another Band, for better propagation.
- ...Increase the transmitter power output.
- ...Check the antenna and feedline connections.
- ...Increase the antenna height.
- ... Move the antenna outside of buildings.
- ... Use a directional antenna.
- ... Move the station antenna physical location.
- ... Use an antenna with higher forward gain.
- ...Change the favored direction of the antenna.
- ... Use an antenna with a different polarization.
- ...Relay through another station.
- ... Establish a cross-band repeater (VHF/UHF)
- ...Digipeat through another station (packet).
- ...Eliminate receiver "noise" sources.
-Speak slower....send slower
- ...Change the mode of communication.

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