



THE ARALUEN ARTS CENTRE
THEATRE TECHNICAL SPECIFICATIONS
2009

DIRECTOR: **TIM ROLLASON**
TECHNICAL MANAGER: **GREG THOMPSON**
THEATRE TECHNICIAN: **DANIEL SAWYER**

Reference points for measurements are:

HEIGHT : Relative to stage floor
DEPTH : Relative to apron of stage
THROW : Relative to centre of apron at 180mm above stage
ANGLE : Relative to horizontal at 180mm above stage

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THEATRE DIMENSIONS

Proscenium	Width	12.930 metres
	Height	6.745 metres
Stage Width	Wall to wall	21.40 metres
	Centre Line to PS wall (c'weight frame)	9.95 metres
	Centre Line to OP wall	10.70 metres
Stage Depth	Apron to rear of Proscenium wall	0.620 metres
	Apron to rear of fire curtain guides	0.820 metres
	Apron to House Curtain line	1.020 metres
	Apron to line 1	1.270 metres
	Apron to line 60 (last c'weight set)	10.415 metres
	Apron to back wall	11.615 metres
Stage Height	To underside of grid	16.45 metres
	To loading gallery floor	15.35 metres
	To underside of fly floor	6.740 metres
	Floor to batton (out dead)	16.30 metres
	Floor to batton (in dead)	00.65 metres
	Drift	15.65 metres
Width between Fly Galleries		17.70 metres
Stage Floor	Tempered Masonite screwed over Pinus Radiata floor, full width.	
	No level change	
	No rake	
	Load rating	750 kg/sq m
Stage Trap	5.72 metres upstage of apron on centre line. 2 halves each 860mm deep x 700mm wide. Total opening available unobstructed is 860 mm deep x 1500mm wide.	
Orchestra Pit/Lift	The theatre has a 3 position (pit/auditorium/stage) trapezoid shaped orchestra pit/lift, which extends from the stage apron to 2.490 metres into the auditorium. Along the upstage edge the lift is 10.690 metres wide; along the downstage edge it is 6.500 metres wide. Max. Working load = 8 Tonne. Max. Floor loading = 750 kg/sq. m. Max. Point load = 1100 kg/sq. m.	
Juliet Balconies	2.4 metres above stage level, over forestage access doors. Concealed when not in use by two sets of bifold doors, each set 1.2 m wide x 2 m high. The doors conceal a proscenium perch lighting position.	
Forestage Access	Doors either side of the proscenium arch gives access to forestage. 1.2 m wide x 2.4 m high.	
Stage Access Door	To Loading Dock	
	Height	6.55 metres
	Width	2.40 metres
	Maximum Diagonal	7.00 metres

Loading Dock	Ceiling Height - Maximum	12.20 metres
	Minimum	4.90 metres
	Floor space available	110.00 sq metres
Loading Dock Access Door (External)	Height	3.20 metres
	Width	2.40 metres
	Maximum Diagonal	4.00 metres
Vehicle Access to Loading Bay	Enter via Larapinta Drive and use western loop road to loading bay. Dock is 1.2 metres above driveway level. Loading bay is covered and will accommodate vehicles to 4.5 metres in height.	

STAGE MACHINERY

Counterweight System	45 of 60 single purchase 5 line counterweight sets installed on P.S. See hanging plot for spacing of lines. All lines have a SWL = 500 kgs.	
Cradle Capacity	Single cradle (no extender cradle fitted) maximum lift is 395kgs, including bar weight. With cradle extenders fitted maximum lift is 500 kgs, including bar weight.	
Standard Batten	Steel Pipe - 48mm O.D. Length - 16 metres	
Fire Curtain	Semi rigid sheet steel construction with motorized winch.	
House Curtain:	Single purchase counterweight set operated from P.S. Can also be operated as a motorised French action tabtrack controlled from Prompt Corner and from Control Room. Line situated 1020mm from apron. Colour: Ochre	
Stage Drapery	<p><u>Tabs:</u> 2 sets Black Velour on manually operated heavy duty tab tracks. Each half 8.3m wide x 8.3m drop</p> <p><u>Legs:</u> 5 pairs Black Velour each 4.3m wide x 8.2m drop</p> <p><u>Borders:</u> 5 only Black Velour each 16m wide x 3.5m drop.</p> <p><u>Cyclorama:</u> 1 only White filled cloth 16m wide x 8m drop.</p> <p><u>Scrim:</u> 1 only White Sharks Tooth Gauze 15m wide x 7m drop. 1 only Black Sharks Tooth Gauze 15m wide x 7m drop.</p>	

SCENERY / STAGING

Portable Staging	16 x Prostage Portable Staging units. All sections 2.0m x 1.0m with following heights available:
	Modular Series Variable Height 800-1200mm - 3 Units
	Riser Series Variable Height 400-600mm - 6 Units
	Riser Series Fixed Height 600mm - 2 Units
	Riser Series Fixed Height 200mm - 4 Units
	Riser Series Variable Height 1.0m x 1.0m - 1 Unit
	4m Long Truss Frame - 6 Units
	2m Gates for Truss Frame -10 Units
	1m Gates for Truss Frame - 8 Units
	2m Guard Rails - 8 Units
	1m Guard Rails - 6 Units
	4 Rise Step Unit (+800mm Stage) - 2 Units
	2 Rise Step Unit (+400mm Stage) - 2 Units
	Extra Step Unit (+200mm Stage) - 2 Units
Canvas Flats	12 Pieces @ 5500mm x 1800mm. (Condition fair to poor)
Black Wool Flats	8 Pieces @ 5500mm x 1800mm
Bleacher Units	4 x Pongrass Tiered Retractable seating units, each to hold 26 persons max. (4.1m wide x 3.4 m deep x 1.8 m high, when extended)

HANGING PLOT - STOCK RIG

Line No		Depth (mm from apron)
	Rear Proscenium Wall	0715
	Rear of Fire Curtain Guides	0815
HC	House Curtain	1015
1	Teaser	1265
2	Spare	1415
3	Spare	1565
4	Lighting Bar - No. 1	1715
5		Not Installed
6	Spare	2015
7	Spare	2165
8	Spare	2315
9		Not Installed
10	Border - No. 1	2615
11	Legs - No. 1	2765
12	Cinema Legs	2915
13		Not Installed
14	Cinema Screen (NOT MOVEABLE)	3215
15	Spare	3365
16		Not Installed
17	Lighting Bar - No. 2	3665
18		Not Installed
19	Spare	3965
20	Spare	4115
	SPACE FOR STRUCTURAL SUPPORT	
21	Spare	4415
22	Border - No. 2	4565
23	Legs - No. 2	4715
24		Not Installed
25	Black Tab - No. 1	5015
26	Spare	5165
27	Spare	5315
28	Spare	5465
29		Not Installed
30	Lighting Bar - No. 3	5765
31		Not Installed
32	Spare	6065
33	Spare	6215
34	Spare	6365
35	Spare	6515
36	Spare	6665
37		Not Installed
38	Border - No. 3	6965
39	Legs - No. 3	7115
40		Not Installed
41	Spare	7415
42	Spare	7565
43		Not Installed
44	Lighting Bar - No. 4	7865
	SPACE FOR STRUCTURAL SUPPORT	
45	Spare	8165
46	Spare	8315
47		Not Installed
48	Border - No. 4	8615
49	Legs - No. 4	8765
50	Spare	8915
51		Not Installed

52	Lighting Bar - No. 5 (Flood Bar)	9215
53		Not Installed
54		Not Installed
55	Spare	9665
56	Spare	9815
57	Spare	9965
58	Black Tab - No. 2	10115
59	Spare	10265
60	Cyclorama	10415

Please note:

1) Legs on above lines give the most effective mask into the wings. The fan shape of the auditorium can make side masking quite difficult. Legs have returns downstage of approx. 1100 mm.

2) In the case of lighting bars, if the distance to the next bar, up or down stage, is 150mm then that bar should be left free. (le for stock rig lines 3, 16, 30, and 51 should be left free)

LIGHTING

Control Desks	Strand 300 Series. 250 channel with 48 submasters. Full function wireless remote. Strand GSX with Genius 125 and Kaleidoscope software. Full function Designers remote.
Control Protocols	DMX 512
DMX Inlets/Outlets	2 x DMX Loops with inputs/outputs in control room, prompt & OP Fly Floors, Prompt Corner and Dimmer Room. DMX is distributed from PS Fly Floor via a Jands DD8 opto-isolated DMX splitter.
Multiplexers	2 only LSC Linklight 48 channel multiplexers
Dimmers	Total number of dimmers = 183 comprising: <u>Dimmer Room</u> (adjacent to fly gallery USPS): Jands HP6-WM (Digital): 42 x 5kW, Jands HP12-SCWM (Digital): 48 x 2.5 kW, Jands Roadpak (Analogue): 12 x 2.5 kW <u>OP Fly Floor</u> : Jands HP12-SCWM (Digital): 36 x 2.5 kW Jands Hub 24 x 3 (Digital): Total 45 x 2.4 KW dimmers and 27 Power distribution outlets 2 only 2.4kW Strand Model 1 Portable Dimmers
Lantern Stock	<u>Fresnels</u> 2 kW Strand Cadenza with B/D 6 2 kW Robert Juliat 329HF with B/D 12 1 kW Strand Harmony with B/D 24 1 kW CCT Starlette with B/D 20 1.2 kW Robert Juliat 310HF with B/D 60 1.2 kW Selecon with B/D 10 500W CCT Minuette with B/D (Curtain Warmers) 2 <u>Profiles</u> ETC Source 4 15/30 Zoom Profiles 60 ETC Source 4 25/50 Zoom Profiles 20 1 kW Strand Harmony 15/28 Permanently rigged as side booms 32 <u>Floods</u> 1 kW Par 64 with 240v lamp 41 1 kW Iris 4 Cyc Floods 5 750w Palais 4 Ground Rows 5 500w Nocturne Floods with B/D 6 <u>Follow spots</u> 1.2kW MSR Selecon Performer with C/Mag 1 1 kW CID CCT Silhouette 10 degree 1 <u>Effects Lighting</u> U.V. Floods (Patt 60) 2 U.V. Fluorescent Fittings 4 Martin Atomic 3000 DMX Controllable Strobe 1 450 mm Mirror Ball with rotator 1
Accessories	A number of iris' and gobo holders are available to suit all profiles (Aperture diameter 72mm suit size B gobos) 6m Aluminium Pipe 3 5.5m Aluminium Pipe 4 2m Steel Pipe 8 Base Plates for stage booms 8 Telescopic stands 5

	H stands	14
	Boom Arms	38
	Scaff Clamps	10
Smoke Machine	1 x Le Maitre G300 Haze/Fog machine with DMX remote 2 x Look Solutions Unique 2 Hazer (DMX Controllable)	
Tallescope	1 only Instant scaffold No. 524 (platform height 4.6m to 7.5m)	
Auxiliary Power:	<u>150 amp 3-phase</u> : 2 Outlets for lugged or unlugged termination, located USPS rear stage wall and in loading bay area.	
	NOTE: Only one distribution point can be operated at a time. This supply is currently used to power 72 dimmers on the OP Fly Floor.	
	<u>32 amp 3-phase</u> : 5 pin WILCO WICM 530 outlets are located in Loading Dock, Loading Bay, Orchestra Pit PS, Dimmer Room x 2	
	<u>16 amp 3-phase</u> : Grid Floor USPS	

Lighting Positions

F.O.H. Lighting Bridges	<u>No.1 Bridge</u> Width 19.2m Patch outlets: 29 x 10 amp, 4 x 20 amp. Throw to apron at centre stage 8.7m Angle at apron (centre stage) 46 degrees <u>No.2 Bridge</u> Width 19.2m Patch outlets: 26 x 10 amp, 4 x 20 amp. Throw to apron at centre stage 12.7m Angle at apron (centre stage) 32 degrees
F.O.H. Perches	Length 2.6m Patch outlets per side: 7 x 10 amp, 1 x 20 amp. Throw to apron at centre stage 13.1m Angle at apron (centre stage) 23 degrees.
F.O.H. Proscenium Booms	(Located within top two doors of the P & OP Juliet Balconies) Height: From Stage +2400 to + 6000m Patch outlets per side: 7 x 10 amp, 1 x 20 amp.
Stage	There are 5 wired lighting bars which feed to the OP Fly Gallery. <u>LX 1,2 and 3</u> 24 x 10 amp, 6 x 20 amp circuits <u>LX 4</u> 30 x 10 amp circuits <u>LX 5 (Cyc flood bar)</u> 2 x 10 amp circuits (single outlets) 4 x 20 amp circuits (single outlets) 4 x 20 amp circuits each with 5 outlets per circuit
Patch Panel	203 Lighting outlets fully patchable via a master patch panel in Dimmer room

Stage Patch Outlets	Fly Gallery PS No 1	4 x 10 amp, 1 x 20 amp
	Fly Gallery PS No 2	4 x 10 amp, 1 x 20 amp
	Fly Gallery PS No 3	4 x 10 amp, 1 x 20 amp
	Total circuits @ this position	15 circuits
	Fly Gallery OP No 1	19 x 10 amp, 1 x 20 amp
	Fly Gallery OP No 2	14 x 10 amp, 1 x 20 amp
	Fly Gallery OP No 3	14 x 10 amp, 1 x 20 amp
	Fly Gallery OP No 4	6 x 20 amp
	Total circuits @ this position	56 circuits
	Floor Wells PS No 1	4 x 10 amp
	Floor Wells PS No 2	4 x 10 amp
	Floor Wells PS No 3	4 x 20 amp
	Total circuits @ this position	12 circuits
	Floor Wells OP No 1	4 x 10 amp
	Floor Wells OP No 2	4 x 10 amp
	Floor Wells OP No 3	4 x 20 amp
	Total circuits @ this position	12 circuits
	Forestage Entrance PS	3 x 10 amp
	Forestage Entrance OP	3 x 10 amp
	Total circuits @ this position	6 circuits
	Orchestra Pit PS	1 x 10 amp
	Orchestra Pit OP	1 x 10 amp
	Total circuits @ this position	2 circuits
Understage PS	2 x 10 amp	
Control Room	2 x 10 amp 2 x 20 amp	
Total circuits @ this position	4 circuits	
Power Distribution	1 x Jands PSD6R Distribution Unit: 6 x 20 Amps distribution unit.	

AUDIO EQUIPMENT

Sound Desks

Soundcraft MH3 (situated at Auditorium Mixing Position)

Configurable as FOH/Monitor/ or Monitor from FOH

Inputs 32 mono inputs
 4 Stereo inputs
 4 band EQ on all input channels
 Insert points on all mono channels
 Direct out on all mono channels
 Phantom power on all mono channels
 Phase reverse on all mono channels
 LCR panning on all inputs

Outputs 8 Groups/12 Auxiliaries (FOH Mode)
 12 mono or 8 mono + 2 Stereo in Monitor Mode
 8 VCA & Mute Groups with snapshot automation
 12x4 Output Matrix
 Left, Right and Centre Mix out

Soundcraft K-1 24/4/2

Inputs 24 mono inputs
 2 x switchable A/B stereo inputs
 Insert points on all mono channels
 Phantom power
 Phase reverse

Outputs 6 x Auxiliaries
 4 x Matrix
 4 x Group
 2 x Mix
 24 x Direct Out

Yamaha M916

Inputs 32 switchable A/B to 16 channels
 2 x Effects
 Numerous sub-ins
 Phantom power

Outputs 2 x Program
 2 x Foldback
 2 x Echo
 4 x Matrix
 16x Direct out on all input channels

Yamaha O1V Digital Mixing Desk

Inputs 12 mono input channels (1 through 12)
 2 stereo input channels (13/14 and 15/16)
 Phantom power
 Four-band parametric EQ
 In-built effects, dynamics and EQ libraries
 100 scene memories

Outputs 1 x analog Stereo Output (L&R)
 4 x analog Auxiliary sends

Signal Processing	<p><u>FOH</u> 2 x BSS Soundweb 9088iiML DSPs</p> <p><u>Foldback</u> 1 x DBX 480R Drive Rack 2 x DBX 480 Drive Racks</p>
Audio Patching	<p>Patching provided by an XLR patchbay located in the control room. 62 Individual balanced microphone points located around the stage. Stage to Control Room: 24 both-way patch field Control Room to FOH Position: 32 Sends & 16 Returns Control Room to Amp Rack: 7 both-way patch field & 6 Sends Amp Rack to Control Room Speaker Tielines: 6 Sends Control Room Mixing Position to Control Room Patch: 16 Sends & 8 Returns</p>
Multi-core	<p>2 x 12 both-way stage box & 20m tail 1 x 12 both-way stage box & 40m tail 1 x 12 way stage box with monitor split (all channels transformer isolated at mic level) with 10m tail 1 x 6 way stage box with monitor split (all channels transformer isolated at line level) with 10m tail 1 x 16 send & 4 return multicore @ 20 metres 1 x 12 way extension @ 10 metres</p>
Speaker Outlets	<p>3 x FOH Cabinets and FOH Subs are hard wired. There are 38 additional Outlets: 10 FOH, 4 on orchestra lift, 20 onstage, 1 Juliet Balcony Entrance PS, 1 Juliet Balcony Entrance OP, 1 Fly Gallery PS, 1 Fly Gallery OP.</p>
Radio Microphones	<p>6 only Shure ULXP4 Professional Diversity UHF Receivers 6 only Shure ULX1 Body-Pack Transmitters (TA4M connectors) 6 only Shure ULX2 Hand-Held Microphone Transmitter (SM58) 2 only Shure UA844 Antenna Distribution Systems 3 only Shure UT4 Diversity Receiver (598.625, 600.800, 606.300MHz) 3 only Shure SM58 UT2 Hand Held Transmitter 2 only Shure UT1 Body Pack Transmitter with TA4M Socket 2 only Shure WL93 Omnidirectional Subminiature Lavalier Microphone with TA4F Plug 8 only DPA 4066-F Omnidirectional Headband Microphones (Beige) with TA4F Plug</p>
Microphones	<p>1 x Shure Beta 52A 4 x Shure SM57 6 x Shure SM58 4 x Shure Beta 56A 4 x Shure Beta 57A 4 x Shure Beta 58A 2 x Shure Beta 87A 2 x Shure SM99 - 12" gooseneck 2 x Shure MX418/C - 18" gooseneck 1 x Shure Easyflex EZG/18 - 18" gooseneck 4 x Shure MX202B/C 2 x Shure MX393/C Boundary Microphones 2 x AKG C451 B 4 x AKG C451 EB Pre-amp 3 x AKG CK1 Capsules 1 x AKG CK5 Capsule 2 x AKG CK9 Capsules (Shotguns) 3 x AKG D330 BT 4 x Realistic PZM</p>
D.I.s	<p>4 x BSS AR133 Active DIs 1 x Jands Active D.I.</p>

	4 x Hux Passive D.I.s 1 x ARX DI-4 Quad DI Box and Line Mixer
Microphone Stands	15 x Sennheiser. Black with telescopic boom and rubber mic clips 3 x Beyer ST 600 Round Base Upright Stands 4 x Beyer Short Boom Stands 3 x Table stands
Playback / Recording	1 x Sony MDS 501 Minidisc recorder 1 x Denon DN-D4500 Double CD/MP3 Player 2 x Sony CDP 991 Compact Disc Player 1 x Sony CDP XE300 Compact Disc Player 1 x NAD 6325 Cassette Deck 1 x Yamaha K200a Cassette Deck 1 x Denon DRM 400 Cassette Deck 1 x Technics SL 1200 Mk2 Turntable 1 x REVOX B77 1/4 track (3.75 & 7.5 ips) 1 x REVOX B77 1/2 track (7.5 & 15 ips)
Signal Processors	1 x Yamaha SPX 900 Multi-effects processor 1 x Yamaha SPX 2000 Multi-effects processor 2 x DBX 1074 Quad Gates 3 x DBX 266XL Dual Channel Compressors 1 x Yamaha R1000 Digital Reverb 1 x Alesis 3630 Stereo Compressor/Limiter 1 x DBX 163X Over easy Compressor/Limiter 1 x Lexicon MPX200 Effects Generator
EQs	2 x Klark-Teknic DN3600C (30 band, dual channel) Programmable EQ 1 x Klark-Teknic DN 410 Parametric Equaliser 3 x Yamaha Q 1027 1/3 Octave Graphic Equaliser
Amplifiers	2 x Crown CTS 3000 (FOH Subs) 3 x Crown CTS 2000 (FOH Cabinets Mid & Low) 4 x Crown CTS 600 (FOH Cabinets Hi & Front Fill) 3 x Crown CTS 2000 (Foldback) 1 x Yamaha P-2200 (Cinema Surround) 4 x Yamaha P-2201
Speakers	<u>F.O.H.</u> 3 x JBL AM6340/95 3-way in L/C/R configuration 2 x JBL AL6125 Subs <u>F.O.H Front Fill</u> 4 x JBL Control 25 (Mounted in Stage Apron) <u>Foldback</u> 6 x JBL MP212 Wedges 4 x Aust Monitor wedges FB300 15" + coaxial horn 2 x Etone wedges 12" + Piezo horn <u>Cinema Surround</u> 1 x 802C Bose Active processor 4 x Bose 802 <u>Control Room Monitoring</u> 2 x JBL LSR25P Self Powered
Headphones	1 Pair AKG K 501

ORCHESTRA EQUIPMENT

1 x RAT Conductor's Stand
20 x RAT Orchestra Stands
6 x Black Orchestra Chairs

PIANOS

1 x Yamaha CF Concert Grand – 9ft
2 x Victor Baby Grands – 5ft
2 x Yamaha Professional Uprights – 4 ft

PROJECTION EQUIPMENT**Film Projectors**

1 x Kineton FP25D 35mm Xenon 1600W Projector & Rectifier
1 x Cinemeccanica-Milano Victoria Twelve 35mm Xenon 1600W Projector
1 x Fumeo 35mm model 9945 Xenon 500W projector
1 x Fumeo 16mm model HL 3000 Xenon 1000W projector
1 x Elprad Double Makeup Table
1 x Xebec USH10 KCX-80U4 Rectifier (Xenon Ballast)

Cine-screen: 1 only Harkness matt white perforated screen with fixed masking to maximum picture size:

Cinemascope: 7.6m wide x 3.45m high.

Widescreen: 6.1m wide x 3.7m high (1:1.66 ratio)

Slide Projectors

1 x Kodak Carousel S-AV 2030 (1x Infrared remote unit to suit)
1 x Kodak Carousel S-AV 2060
3 x Kodak Ektapro 7000 (1x Infrared remote unit to suit)
1 x Kodak Mirage 900dx Digital Slide Projector Controller

Video & DVD players

1 x JVC BRS600E VHS Video Recorder
1 x LG V8824W Video Recorder/DVD Player

Switcher/Scaler

1 x Analogway Octofade: Computer & Video A/V Seamless Switcher, Fading & Titling Effects.
8 x Universal Inputs with 1 x A/V output : up to 1400x1050 (SXGA+)

AV Accessories

1 x Leon Audio Power Point Remote Controller
1 x ATEN VS-94A 1 to 4 Video Splitter

Overhead Projectors

1 x Elmo HP A290
1 X 3M 9080

Screens

2 x Portable freestanding white projection screens

White Boards

2 x Portable freestanding white boards

FACILITIES

Dressing Rooms	No. 1 & 2 for 29 artists. Each room 7.8m x 7.5m No. 3 & 4 for 4 artists. Each room 2.4m x 3.7m All with individually lit make-up benches All with separate shower and toilet facilities 6 x Large costume rack trolleys, length 1900mm 2 x Medium costume rack trolleys, length 1000mm 2 x Small costume rack trolleys, length 750mm
Laundry	3.7m x 4.6m. Equipped with the following items 1 x 7kg automatic washing machine 1 x 5kg tumble drier 1 x Cabinet drier 1 x Ironing board & Iron 1 x Washing Tub
Green Room	3.5m x 4.6m Equipped with refrigerator, microwave and Rheem Laser boiling water unit NOTE: Araluen does not supply tea/coffee etc.

STAGE MANAGEMENT

S.M. Console	Located in prompt corner with dedicated talkback to all production areas, CCTV, telephone and paging to all backstage areas and control room.
Talkback System	Telex Audiocom US2000 Microprocessor controlled two-channel intercom system with S.M. communication points in all production areas. Telex Radio Com BTR-700 UHF Wireless Intercom Base Station. 4 TR-700 UHF Belt-packs all with single ear Audio Telex headsets. 7 Belt-packs & SPS 2000 master station, all with single ear Audio Telex headsets.
Closed Circuit TV	1 only NEC T122c CCD B/W Camera fixed mount at rear of Auditorium giving a full stage picture. 1 only 12" High resolution monitor on SM console 1 only 9" High resolution monitor in FOH Manager's office
Paging System	Paging to all backstage & production areas via Audio Telex talkback system as well as program relay.