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COMMISSION OF INQUIRY ON
AVIATION SAFETY

INDEX TO TRANSCRIPTS OF
EVIDENCE:

WITNESSES

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PHASE I

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PHASE I WITNESSES

PHASE I - AIRWORTHINESS

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WITNESSES

Examination in
Ottawa, Toronto & Vancouver

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<u>Bruce AUBIN, General Manager of Engineering,</u>			
<u>Air Canada; Chairman of the Engineering and</u>			
<u>Maintenance Committee of Air Transport Assoc.</u>			
<u>of Canada (ATAC), sworn</u>			
	23	4,012	Ottawa, Jan. 29/80
Examination by John Sopinka, Q.C.	23	4,012	
Examination by John Keenan	23	4,154-4,185	
recalled	24	4,343	Ottawa,
Examination by John Keenan	24	4,343	Jan. 30/80
Examination by E.T. Nobbs, Q.C.	24	4,364-4,372	
<u>Roger BEEBE, Ontario Region DOT Airworthiness</u>			
<u>Inspector (esp. manufacturing, repair & overhaul),</u>			
<u>sworn</u>			
	16	2,895	Ottawa, Jan. 16/80
Examination by John Sopinka	16	2,895	
Examination by Andre Garneau, Q.C.	16	2,918-2,921	
<u>D. BENTHAM, DOT Superintendent of Test Flying</u>			
<u>(cf. Chief Test Pilot), sworn</u>			
	10	1,686	Ottawa, Nov. 29/79
Examination by Andre Garneau	10	1,686-1,702	
recalled	11	1,716	Ottawa,
Examination by Andre Garneau	11	1,716	Dec. 17/79
Examination by Michelle Swenarchuk	11	1,735	
Examination by John Keenan	11	1,740	
Examination by T. Cappell	11	1,749	
Examination by John Sopinka	11	1,775	
Examination by the Commissioner	11	1,776	
Examination by John Sopinka	11	1,795	
Comments by Andre Garneau	11	1,797-1,798	
<u>Diedrick Tobias BERG, (Supervisory) Airworthiness</u>			
<u>Inspector, DOT Ontario Region, sworn</u>			
	16	2,717	Ottawa, Jan. 16/80
Examination by John Sopinka	16	2,717	
Examination by Michelle Swenarchuk	16	2,831	
Examination by E. T. Nobbs	16	2,838	
Examination by Andre Garneau	16	2,843-2,850	
<u>Robert L. BIGGAR, Representative, International</u>			
<u>Association of Machinists & Aerospace Workers (IAM),</u>			
<u>sworn</u>			
	25	4,465	Ottawa, Jan. 31/80
Examination by Me Gary Q. Ouellet	25	4,465	
Examination by Michelle Swenarchuk	25	4,496	
Examination by Captain Don McBride	25	4,496	
Examination by E. T. Nobbs	25	4,500	
Examination by Andre Garneau	25	4,507	
Further examination by Gary Ouellet	25	4,509-4,510	

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<u>Charles Frederick BURBANK</u> , Canadian Executive Secretary, International Flying Farmers (& IFF Rep. on COPA Board); Air Canada 727 Captain, sworn	26	4,874	Ottawa, Feb. 1/80
Examination by Arthur E. Lorenz	26	4,874	
Questioned by the Commissioner	26	4,926-4,937	
<u>Don L. BUTTON</u> , Director, Aviation Safety Bureau, sworn	13	2,196	Ottawa Dec. 19/79
Examination by John Sopinka	13	2,196-2,280	
recalled	14	2,282	Ottawa,
Examination by John Sopinka	14	2,282	Jan. 14/80
Examination by Michelle Swenarchuk	14	2,389	
Examination by E. T. Nobbs	14	2,401	
Further examination by John Sopinka	14	2,427-2,429	
<u>J. A. Pierre De NIVERVILLE</u> , Chief of Aviation Safety Analysis, Aviation Safety Bureau, sworn	26	4,938	Ottawa, Feb. 1/80
Examination by John Sopinka	26	4,938-4,984	
recalled	27	4,987	Toronto,
Examination by John Sopinka	27	4,987-5,042	Feb. 20/80
<u>Seth Walter GROSSMITH</u> , Engineering Test Pilot, Transport Canada, sworn	28	5,255	Toronto, Feb. 21/80
Examination by Andre Garneau	28	5,255	
Cross-examination by Michelle Swenarchuk	28	5,307	
Cross-examination by Gary Ouellet	28	5,329-5,335	
<u>Terrence Walter HEASLIP</u> , Chief of Aviation Safety Engineering, Aviation Safety Bureau - SEE LIST OF WITNESSES - PHASE II - part of testimony in Vancouver, May 21, 1980, Vol. 55			
<u>Ed JENSEN</u> , Chairman, Air Safety Committee, Air Operations Group, sworn	15	2,501	Ottawa, Jan. 15/80
Examination by John Sopinka	15	2,501-2,686	
recalled	16	2,687	Ottawa,
Examination by John Sopinka	16	2,688-2,716	Jan. 16/80
recalled	17	2,965	Ottawa,
Examination by Gary Ouellet	17	2,965	Jan. 17/80
Examination by Michelle Swenarchuk	17	2,967	
Examination by E. T. Nobbs	17	3,019	
Examination by Andre Garneau	17	3,076-3,161	
recalled	18	3,162	Ottawa,
Examination by Michelle Swenarchuk	18	3,166-3,168	Jan. 21/80

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<u>Donald JOSEPH</u> , Structural Engineering Specialist in Airworthiness, DOT, sworn	83	16,753	Toronto, Aug. 22/80
Examination by John Sopinka	83	16,753-16,756	
recalled	83	16,829	
Further examination by John Sopinka	83	16,829-16,845	
<u>Robert E. KLEIN</u> , Chief Airworthiness Engineer, de Havilland, sworn	18	3,170	Ottawa, Jan. 21/80
Examination by John Sopinka	18	3,170-3,283	
recalled	19	3,285	Ottawa, Jan. 22/80
Examination by John Sopinka	19	3,285- 3,497	
recalled	20	3,499	Ottawa, Jan. 23/80
Examination by John Sopinka	20	3,499	
Examination by Don McBride	20	3,522	
Examination by Andre Garneau	20	3,529-3,572	
<u>Donald Earl LAMONT</u> , Director, Aeronautical and Licensing Inspection, DOT, sworn	11	1,798	Ottawa, Dec. 17/79
Examination by John Sopinka	11	1,798-1,879	
recalled	12	1,880	Ottawa, Dec. 18/79
Examination by John Sopinka	12	1,880	
Examination by Lynne Kaye	12	1,941	
Examination by John Keenan	12	2,032-2,068	
recalled	13	2,070	Ottawa, Dec. 19/79
Examination by John Keenan	13	2,070	
Examination by E. T. Nobbs	13	2,122	
Examination by John Sopinka	13	2,162-2,195	
recalled	28	5,336	Toronto, Feb. 21/80
Examination by Andre Garneau	28	5,336- 5,433	
resumed	29	5,434	Toronto, Feb. 22/80
Examination by Andre Garneau continued	29	5,435	
Examination by John Sopinka	29	5,478-5,537	
recalled	46	9,007	Toronto, Apr. 3/80
- SEE LIST OF WITNESSES - PHASE II - cross-examination by Michelle Swenarchuk			
<u>Robert MASON</u> , DOT Ontario Region, Airworthiness Inspector (audit & inspections with respect to air carriers who operate aircraft over 12,500 lbs.), sworn	16	2,869	Ottawa, Jan. 16/80
Examination by John Sopinka	16	2,869	
Examination by E. T. Nobbs	16	2,890-2,894	

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Walter M. McLEISH, Administrator, Canadian Air Transportation Administration (CATA), sworn	2	85	Ottawa, Nov. 19/79
Examination by John Sopinka	2	85-230	
recalled	3	234	
Examination by John Sopinka	3	234	Ottawa, Nov. 20/79
Examination by John Keenan	3	268	
Examination by L. Stanford	3	322	
Examination by E. T. Nobbs	3	379-425	
recalled	4	433	
Examination by Andre Garneau	4	433	Ottawa, Nov. 21/79
Examination by John Sopinka	4	467	
Questioned by the Commissioner	4	487-494	
recalled	29	5,537	
Examination by John Sims	29	5,545	Toronto, Feb. 22/80
Examination by Andre Garneau	29	5,633	
Cross-examination by Michelle Swenarchuk	29	5,649	
Examination by John Sopinka	29	5,660	
Comments by Mr. McLeish	29	5,685-5,690	
(Also see parts of testimony, Vol. 55 (May 21) and Vol. 56 (May 22) in Vancouver, B.C. - see Phase II and Phase III-Pacific List of Witnesses)			

John Edward O'BRIEN, Manager, Engineering and Air Safety Dept. (U.S.) Air Line Pilots Association (ALPA), sworn	25	4,574	Ottawa, Jan. 31/80
Examination by John Sopinka	25	4,574	
Examination by Michelle Swenarchuk	25	4,738	
Examination by E. T. Nobbs	25	4,740	
Examination by Andre Garneau	25	4,767	
Further examination by John Sopinka	25	4,771-4,772	
Kenneth D. OWEN, Chief of Airworthiness, DOT, sworn	4	495	Ottawa, Nov. 21/79
Examination by John Sopinka	4	495-614	
recalled	5	616	
Examination by John Sopinka	5	616-775	Ottawa, Nov. 22/79
recalled	6	776	
Examination by John Sopinka	6	776-902	Ottawa, Nov. 23/79
recalled	7	903	
Examination by John Sopinka	7	903- 1,077	Ottawa, Nov. 26/79
recalled	8	1,079	
Examination by Don McBride	8	1,079	Ottawa, Nov. 27/79
Examination by Lynne Kaye	8	1,094	
Examination by E. T. Nobbs	8	1,219-1,260	

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Kenneth D. Owen (cont'd)			
recalled	9	1,261	Ottawa,
Examination by E. T. Nobbs continued	9	1,261	Nov. 28/79
Examination by T. Cappell	9	1,311-1,501	
recalled	10	1,502	Ottawa,
Examination by T. Cappell	10	1,502	Nov. 29/79
Examination by Andre Garneau	10	1,556	
Examination by Lynne Kaye	10	1,607	
Examination by John Sopinka	10	1,656-1,679	
recalled	27	5,043	Toronto,
Examination by John Sopinka	27	5,043	Feb. 20/80
Examination by George Capern	27	5,152-5,155	
<u>Paul Harry PATTEN</u> , Director of Design Assurance,			
McDonnell-Douglas Aircraft, sworn	21	3,716	Ottawa, Jan. 24/80
Examination by Gary Ouellet	21	3,716	
Examination by E. T. Nobbs	21	3,871	
Examination by Andre Garneau	21	3,875	
Examination by T. Cappell	21	3,878-3,892	
Questioned by the Commissioner	22	3,921-3,924	
<u>Torrance RAMAGE</u> , Director of Maintenance Quality,			
Air Canada base, sworn	24	4,373	Ottawa, Jan. 30/80
Examination by John Sopinka	24	4,373	
Examination by John Keenan	24	4,434	
Comments by E. T. Nobbs	24	4,460-4,462	
<u>Harry ROSS</u> , DOT Ontario Region Airworthiness			
Inspector (esp. avionics), sworn	16	2,850	Ottawa, Jan. 16/80
Examination by John Sopinka	16	2,850-2,869	
<u>Thomas E. SIDDON</u> - see List of Witnesses - Phase II -			
M.P. for Richmond/South Delta, B.C.	58	11,255	Vancouver, May 26/80
<u>Louis Frank SHAINLINE</u> , DOT, Senior Inspector and			
Supervisor (general aviation), Toronto, sworn	16	2,922	Ottawa, Jan. 16/80
Examination by Gary Ouellet	16	2,922-2,962	
<u>David Charles SLAYTER</u> , Civil Aviation Inspector, DOT			
Airways Division, Air Space Section, Air Operations			Ottawa, Jan. 30/80
Group (Atlantic Region), Moncton, N.B., sworn	24	4,186	
Examination by John Sopinka	24	4,186-4,342	

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<u>David Charles Slayter</u> (cont'd)			
recalled	26	4,777	Ottawa,
Examination by Michelle Swenarchuk	26	4,777-4,865	Feb. 1/80
recalled	27	5,159	Toronto,
Examination by Andre Garneau	27	5,159-5,208	Feb. 20/80
resumed	28	5,209	Toronto,
Examination by Andre Garneau continued	28	5,216	Feb. 21/80
Examination by John Sopinka	28	5,250-5,254	
<u>Alexander J. SPENCER</u> , Quality Assurance Manager, Inotech Aviation Ltd., sworn			
	22	3,893	Ottawa, Jan. 25/80
Examination by Gary Ouellet	22	3,893-3,924	
<u>Lorne A. TAPP</u> , Acting Chief of Aviation Safety Investigation Division - see List of Witnesses - PHASE II - (parts of testimony in Vancouver, Vol. 54 (May 20/80) and Vol. 55 (May 21/80))			
<u>John THOMPSON</u> , Director of Product Engineering, de Havilland, sworn			
	20	3,572	Ottawa, Jan. 23/80
Examination by John Sopinka	20	3,573-3,713	
recalled	83	16,756	Toronto,
Examination by John Sopinka	83	16,756-16,815	Aug. 22/80
recalled	83	16,845	
Further examination by John Sopinka	83	16,845-16,850	
<u>Steven VODI</u> , Business Representative, Local 2413, Int'l Assoc. of Machinists & Aerospace Workers (IAM), sworn			
	25	4,511	Ottawa, Jan. 31/80
Examination by Gary Ouellet	25	4,511	
Examination by E. T. Nobbs	25	4,553	
Comments by Mr. Garneau	25	4,569	
Comments by Mr. McLeish (on jurisdiction re aircraft at the gate)	25	4,570-4,572	
<u>Keith WALKER</u> , Senior Airworthiness Engineer, Structures, CATA, sworn			
	83	16,681	Toronto, Aug. 22/80
Examination by John Sopinka	83	16,682-16,752	
recalled	83	16,815	
Further examination by John Sopinka	83	16,816-16,829	

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<u>Karl WEINSTEIN</u> , Canadian Owners & Pilots Association (COPA), sworn	14	2,430	Ottawa, Jan. 14/80
Examination by Gary Ouellet	14	2,430- 2,488	
recalled	15	2,489	Ottawa,
Examination by Gary Ouellet continued	15	2,489	Jan. 15/80
Examination by John Sopinka	15	2,494-2,499	
<u>B.J. WORMWORTH</u> , Engineering Test Pilot, sworn	22	3,925	Ottawa, Jan. 25/80
Examination by John Sims	22	3,925	
Examination by T. Cappell	22	3,978	
Examination by Gary Ouellet	22	3,989-4,009	

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PHASE II

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PHASE II WITNESSES

PHASE II - ACCIDENT INVESTIGATION AND INCIDENT REPORTING

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TORONTO, Ontario
and
VANCOUVER, British Columbia

23 June 1980

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<u>Peter ALLEN</u> , submission on behalf of Canadian Society of Aviation Medicine (CSAM) ...	50	9,883	Tues. Apr.22/80
Examination by Mr. Sopinka	50	9,883	
<u>Dr. Ian Hall ANDERSON</u> , Director of Civil Aviation Medicine (CAM), Medical Services Branch, Health and Welfare Canada, sworn	41	8,091	Thurs. Mar.27/80
Examination by Mr. Sopinka	41	8,091	
Cross-examination by Mr. Cousins	41	8,118	
Cross-examination by Mr. Garneau	41	8,129	
recalled	50	9,924	Tues. Apr.22/80
Submission on behalf of Civil Aviation Medicine (CAM)			
Examination by Mr. Sopinka	50	9,924	
Examination by Mr. Robertson	50	9,947	
<u>B. E. BASTIN</u> , Member of the Crown Counsel Office for B.C. Submission with respect to the inquest into Air West & to explain the difference between that and Sechelt	55	10,836	Wed. May 21/80
<u>Cpl. James Edward BUTLER</u> , RCMP, sworn	38	7,332	Mon. Mar.24/80
Examination by Mr. Sopinka	38	7,332	
Cross-examination by Mr. Stinson	38	7,356	
Cross-examination by Mr. MacGregor	38	7,364	
<u>Don L. BUTTON</u> , Director, Aviation Safety Bureau, recalled	32	6,162	Wed. Feb.27/80
Examination by Mr. Sopinka	32	6,162	
recalled	33	6,185	Thurs. Feb.28/80
Examination by Mr. Sopinka continued	33	6,185	
Cross-examination by Mr. Brenner	33	6,299	
Cross-examination by Mr. MacDougall	33	6,320	
Cross-examination by Mr. Robertson	33	6,335	
Cross-examination by Ms. Swenarchuk	33	6,356	
Cross-examination by Capt. McBride	33	6,364	
Cross-examination by Mr. Capern	33	6,366	
recalled	34	6,389	Fri. Feb.29/80
Cross-examination by Mr. Garneau	34	6,389	
Re-examination by Mr. Sopinka	34	6,404	
Questioned by the Commissioner	34	6,413	
Further examination by Mr. Sopinka	34	6,419	
Further cross-examination by Mr. Robertson	34	6,425	
recalled	47	9,175	Tues. Apr.8/80
Examination by Mr. Sopinka	47	9,175	
Cross-examination by Mr. Robertson	47	9,227	

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<u>Wilfred (Joe) CARPENTER</u> , Transportation Coroner for British Columbia, sworn	55	10,842	Wed. May 21/80
Examination by Mr. Sopinka	55	10,842	
<u>Christine CAVUOTO</u> , Vice-President, Canadian Air Line Flight Attendants Association (CALFAA), sworn	46	9,123	Thurs. Apr.3/80
Examination by Mr. Sopinka	46	9,123	
Cross-examination by Mr. Keenan	46	9,140	
Cross-examination by Mr. Nobbs	46	9,150	
<u>Capt. Terry N. CHAMPION</u> , former member Board of Directors, Canadian Air Line Pilots Association (CALPA); Pilot, Pacific Western Airlines, sworn	53	10,330	Fri. Apr.25/80
Examination by Mr. Keenan	53	10,330	
Examination by Mr. Sopinka	53	10,339	
Cross-examination by Mr. Garneau	53	10,349	
Cross-examination by Mr. Tilroe	53	10,352	
Cross-examination by Mr. Nobbs	53	10,361	
Re-examination by Mr. Keenan	53	10,363	
Further examination by Mr. Sopinka	53	10,385	
<u>Dr. Marcel CLEMENT</u> , Médecin Régional de l'Aviation Civile, Montréal, introduced ...	47	9,230	Tues. Apr.8/80
Interroge par Me Ouellet	47	9,230	
Examination by Mr. Garneau	47	9,256	
Further examination by Me Ouellet	47	9,262	
<u>David COUSINS</u> , Counsel to Francois Dubé. Submission with respect to Dr. Dubé	52	10,212	Thurs. Apr.24/80
<u>Charles Alexander COWIE</u> , Chief, Contingency Plans & Operations (CPO), Transport Canada, Ottawa, sworn ..	40	7,714	Wed. Mar.26/80
Examination by Mr. Sopinka	40	7,715	
Cross-examination by Mr. Stinson	40	7,732	
Cross-examination by Mr. MacGregor	40	7,749	
Examination by Mr. Garneau	40	7,753	
<u>Herbert W. CUNNINGHAM</u> , Submission on behalf of COPA (Canadian Owners and Pilots Association) ..	51	10,155	Wed. Apr.23/80
Examination by Mr. Sopinka	51	10,155	
<u>Dr. D. A. DELLANDREA</u> , Submission on behalf of CSAM (Canadian Society of Aviation Medicine) ..	50	9,850	Tues. Apr.22/80
Examination by Mr. Sopinka	50	9,853	
Examination by Mr. Sims	50	9,878	

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<u>Stanislas DERY</u> , (Travelling) Crown Coroner, Province of Quebec, introduced	48	9,498	Wed. Apr.9/80
Examination by Mr. Ouellet	48	9,498	
resumed	49	9,534	Thurs. Apr.10/80
Further examination by Mr. Ouellet	49	9,535	
Cross-examination by Mr. Sims	49	9,536	
Cross-examination by Ms. Swenarchuk	49	9,549	
<u>Michel DOYON</u> , Les Gens de l'air du Québec	49	9,617	Thurs. Apr.10/80
Examen par Me Ouellet	49	9,617	
<u>Dr. Francois DUBE</u> , Medical Aviation Officer, Aviation Safety Bureau, sworn	42	8,193	Fri. Mar.28/80
Examination by Mr. Cousins	42	8,194	
Cross-examination by Mr. Stinson	42	8,290	
Examination by Mr. Sopinka	42	8,312	
recalled	43	8,361	Mon. Mar.31/80
Examination by Mr. Sopinka continued	43	8,361	
Cross-examination by Mr. Garneau	43	8,432	
Re-cross-examination by Mr. Stinson	43	8,443/5	
Further examination by Mr. Cousins	43	8,448	
Re-examination by Mr. Sopinka	43	8,461	
Cross-examination by Mr. Nobbs	43	8,480/1	
<u>Barbara McNaught DUNN</u> , sworn	46	9,080	Thurs. Apr.3/80
Submission on behalf of Canadian Air Line Flight Attendants Association (CALFAA)			
Examination by Mr. Sopinka	46	9,080	
Cross-examination by Mr. Keenan	46	9,109	
<u>John Francis FALVEY</u> , Coordinator Civil Litigation, CATA, Ottawa, sworn	40	7,844	Wed. Mar.26/80
Examination by Mr. Ouellet	40	7,844	
Cross-examination by Mr. Stinson	40	7,872	
Cross-examination by Mr. MacGregor	40	7,885	
<u>Harold Arthur FAWCETT</u> , Aviation Safety Bureau, sworn	34	6,447	Fri. Feb.29/80
Examination by Mr. Sopinka	34	6,447	
recalled	35	6,617	Mon. Mar.3/80
Cross-examination by Mr. Robertson	35	6,617	
Cross-examination by Ms. Swenarchuk	35	6,624	
recalled	43	8,482	Mon. Mar.31/80
Examination by Mr. Stinson	43	8,483	
recalled	44	8,566	Tues. Apr.1/80
Examination by Mr. Stinson	44	8,567	
Examination by Mr. Sopinka	44	8,674	
Re-examination by Mr. Stinson	44	8,744	

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<u>Maximillian Theodore FRIEDL</u> , Chairman, Aircraft Accident Review Board, sworn	34	6,534	Fri. Feb.29/80
Examination by Me Ouellet	34	6,535	
Cross-examination by Mr. Brenner	34	6,587	
Cross-examination by Mr. Robertson	34	6,594	
Cross-examination by Ms. Swenarchuk	34	6,610	
<u>Alex GOOSTREY</u> , Father of the pilot in Air West Crash, <u>Mark Goostrey</u> , introduced	55	10,853	Wed. May 21/80
<u>Thomas O. GRIFFITHS</u> , concluding remarks for the Canadian Bar Association, Air Law Section, B.C. Branch	61	12,224	Thurs. May 29/80
<u>John Robert HAIG</u> , Dept. of Justice, Regional Office -B.C., Civil Litigation Section, sworn	38	7,371	Mon. Mar.24/80
Examination by Mr. Sopinka	38	7,371	
Cross-examination by Mr. Cousins	38	7,451	
resumed	39	7,474	Tues. Mar.25/80
Cross-examination by Mr. Cousins continued	39	7,474	
Cross-examination by Ms. Swenarchuk	39	7,496	
Re-examination by Mr. Sopinka	39	7,500	
recalled	40	7,758	Wed. Mar.26/80
Re-examination by Mr. Sopinka	40	7,758	
Cross-examination by Mr. Stinson	40	7,765	
<u>Terrence Walter HEASLIP</u> , Chief of Aviation Safety Engineering, Aviation Safety Bureau, sworn	55	10,778	Wed. May 21/80
Examination by Mr. Sopinka	55	10,778	
<u>William John Anthony HOBSON</u> , Senior Counsel, Dept. of Justice, Toronto office, sworn	36	6,836	Tues. Mar.4/80
Examination by Mr. Sopinka	36	6,838	
Cross-examination by Mr. Stinson	36	6,959	
Cross-examination by Mr. Cousins	36	7,029	
resumed	37	7,042	Wed. Mar.5/80
Cross-examination by Mr. Cousins continued	37	7,042	
Cross-examination by Mr. Robertson	37	7,077	
Re-examination by Mr. Sopinka	37	7,085	
<u>William M. HOWES</u> , Aviation Safety Bureau, sworn	41	7,898	Thurs. Mar.27/80
Examination by Mr. Sopinka	41	7,898	
Cross-examination by Mr. Stinson	41	7,985	
Cross-examination by Mr. Cousins	41	8,007	
Cross-examination by Mr. Garneau	41	8,026	
Examination by Miss Swenarchuk	41	8,050	
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<u>Clyde Arthur JOHNSON</u> , (ASI) Accident Investigator, Winnipeg, sworn	44	8,538	Tues. Apr.1/80
Examination by Mr. Sopinka	44	8,538	
Cross-examination by Mr. Keenan	44	8,555	
<u>Stuart KEATE</u> , newspaper publisher, introduced	61	12,126	Thurs. May 29/80
Examination by Mr. Griffiths	61	12,126	
<u>John KEENAN</u> , with respect to submission of Canadian Air Line Pilots Association (CALPA) ...	53	10,388- 10,437	Fri. Apr.25/80
continued	53	10,455	
<u>James B. KING</u> , Chairman, (U.S.) National Transporta- tion Safety Board (NTSB), sworn	54	10,616	Tues. May 20/80
Examination by Mr. Griffiths	54	10,616	
Cross-examination by Mr. Brenner	54	10,681*	
Cross-examination by Mr. Garneau	54	10,698	
Examination by Mr. Sopinka	54	10,700	
Cross-examination by Mr. Swystun	54	10,721	
<u>Donald Earl LAMONT</u> , Director, Aeronautical Licensing & Inspection (Sworn in Phase I, Vol. 11, p. 1798) recalled	46	9,007	Thurs. Apr.3/80
Examination by Ms. Swenarchuk	46	9,007	
<u>Sgt. Luc Joseph Albert LeGAL</u> , RCMP, sworn	37	7,089	Wed. Mar.5/80
Examination by Mr. Sopinka	37	7,089	
Cross-examination by Mr. Stinson	37	7,258	
resumed	38	7,285	Mon. Mar.24/80
Cross-examination by Mr. Stinson continued	38	7,287	
Cross-examination by Mr. Cousins	38	7,291	
Re-examination by Mr. Sopinka	38	7,330	
<u>D. Bruce MacDOUGALL</u> , submission on behalf of the Canadian Bar Association	51	9,996	Wed. Apr.23/80
Examination by Mr. Garneau	51	10,014	
Examination by Mr. Keenan	51	10,019	
Further examination by Mr. Garneau	51	10,021	

*Vol. 54, pages 10,773-10,792 should read
10,673-10,692

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<u>Dr. William James McARTHUR</u> , Chief Coroner, Ministry of the Attorney General, Province of British Columbia re B.C. Coroners' Brief	48	9,335	Wed. Apr.9/80
Examination by Mr. Sopinka	48	9,335	
Cross-examination by Capt. McBride	48	9,495	
 <u>Walter M. McLEISH</u> , Administrator, Canadian Air Transportation Administration (CATA), recalled	30	5,726	Mon. Feb.25/80
Examination by Mr. Sopinka	30	5,726	
recalled	31	5,878	Tues. Feb.26/80
Examination by Mr. Sopinka continued	31	5,878	
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Cross-examination by Mr. MacDougall	32	6,066	
Cross-examination by Mr. Robertson	32	6,112	
Cross-examination by Ms. Swenarchuk	32	6,131	
Cross-examination by Capt. McBride	32	6,137	
Cross-examination by Mr. Capern	32	6,142	
Re-examination by Mr. Sopinka	32	6,150	
recalled	55	10,879	Wed. May 21/80
Examination by Mr. Garneau	55	10,879	
Review of main issues in Phase II by Mr. McLeish .	55	10,890	
Observations by the Commissioner	55	10,895	
Examination by Mr. Robertson	55	10,933	
Examination by Mr. Keenan	55	10,937	
Examination by Mr. Sopinka	55	10,948	
 <u>Robin Keith McLEOD</u> , Engineering Analysis, Aviation Safety Bureau, sworn	45	8,889	Wed. Apr.2/80
Examination by Mr. Ouellet	45	8,889	
resumed	46	8,953	Thurs. Apr.3/80
Examination by Mr. Ouellet continued	46	8,953	
Cross-examination by Ms. Swenarchuk	46	8,960	
Cross-examination by Mr. Allison	46	8,971	
 <u>Dr. J. Stewart McMILLAN</u> , President, National Association of Chief Coroners & Chief Medical Examiners of Canada & Chief Coroner for the Province of Saskatchewan	49	9,553	Thurs. Apr.10/80
Examination by Mr. Sopinka	49	9,553	
 <u>Pierre MENARD</u> , Les Gens de l'air du Québec	49	9,641	Thurs. Apr.10/80
Examen par Me Ouellet	49	9,641	
 <u>Me Pierre MORIN</u> , Ministère de la Justice, P.Q. (Coroners)	47	9,268	Tues. Apr.8/80
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Examination by Mr. Keenan	51	10,137	
<u>E.T. NOBBS</u> , submission on behalf of Air Transport Association of Canada (ATAC)	51	10,161	Wed. Apr.23/80
<u>Remy Alphonse PAQUETTE</u> , Aviation Safety Investiga- tion (Standards & Training), Aviation Safety Bureau, sworn	45	8,749	Wed. Apr.2/80
Examination by Mr. Ouellet	45	8,749	
Cross-examination by Ms. Swenarchuk	45	8,815	
Cross-examination by Mr. Allison	45	8,835	
Cross-examination by Mr. Garneau	45	8,864	
Cross-examination by Ms. Swenarchuk continued	45	8,868	
Re-cross-examination by Mr. Garneau	45	8,882	
Further cross-examination by Mr. Allison	45	8,884	
Re-examination by Mr. Ouellet	45	8,885	
<u>Alastair R. PATERSON</u> , submission on behalf of the Advocates' Society	51	10,024	Wed. Apr.23/80
Examination by Mr. Sopinka	51	10,052	
Examination by Mr. Garneau	51	10,060	
Examination by Mr. Keenan	51	10,065	
Examination by Mr. Tilroe	51	10,073	
<u>Ronald Stanley POOLE</u> , Transport Canada, sworn	42	8,135	Fri. Mar.28/80
Examination by Mr. Sopinka	42	8,135	
Cross-examination by Mr. Stinson	42	8,173	
Cross-examination by Mr. Cousins	42	8,174	
Re-examination by Mr. Sopinka	42	8,190	
<u>Pierre PROULX</u> , Aviation Safety Bureau, sworn	40	7,756	Wed. Mar.26/80
Examination by Mr. Ouellet	40	7,757	
recalled	40	7,768	
Examination by Mr. Ouellet continued	40	7,768	
Cross-examination by Mr. Robertson	40	7,818	
Cross-examination by Mr. Keenan	40	7,822	
Re-examination by Mr. Ouellet	40	7,831	
<u>Fritz PULS</u> , General Counsel, (U.S.) National Trans- portation Safety Board (NTSB), sworn	35	6,631	Mon. Mar.3/80
Examination by Mr. Sopinka	35	6,631	
Cross-examination by Mr. Robertson	35	6,766	
Cross-examination by Ms. Swenarchuk	35	6,812	
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<u>William J. ROBERTSON</u> , submission on behalf of CATCA (Canadian Air Traffic Control Association, Inc.) ...	50	9,758	Tues. Apr.22/80
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Examination by Mr. Keenan	50	9,832	
Examination by Ms. Swenarchuk	50	9,848	
 <u>Thomas E. SIDDON</u> , M.P. for Richmond/South Delta	 58	 11,255	 Mon. May 26/80
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 <u>John Henry SIMS</u> , Departmental General Counsel Transport (DGCT), sworn	 39	 7,504	 Tues. Mar.25/80
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resumed	40	7,669	Wed. Mar.26/80
Cross-examination by Mr. Stinson continued	40	7,669	
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 <u>John SOPINKA</u> , Chief Counsel to the Commission of Inquiry. Submission with respect to Dub�� and Fawcett	 52	 10,179	 Thurs. Apr.24/80
reply to submission	52	10,322	
 <u>Nolan STEED</u> , Dept. of the Attorney General of Alberta Submission of the Province of Alberta .	 49	 9,595	 Thurs. Apr.10/80
Examination by Mr. Sopinka	49	9,603	
 <u>Gerald C. STERNS</u> , San Francisco Attorney, introduced	 61	 12,143	 Thurs. May 29/80
Examination by Mr. Griffiths	61	12,143	
Cross-examination by Mr. Garneau	61	12,197	
Examination by Mr. Sopinka	61	12,201	
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 <u>David STINSON</u> , Counsel to Harold Fawcett. Submission with respect to Mr. Fawcett	 52	 10,266	 Thurs. Apr.24/80
 <u>Michelle SWENARCHUK</u> , submission on behalf of the Air Operations Group (AOG)/Canadian Union of Professional and Technical Employees (CUPTe)	 50	 9,897	 Tues. Apr.22/80
Comments by Mr. Keenan	50	9,918	
submission continued	51	9,955	Wed. Apr.23/80

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Examination by Mr. Sopinka	54	10,545	
recalled	55	10,729	Wed. May 21/80
Continuation of examination by Mr. Sopinka	55	10,729	
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Cross-examination by Mr. Brenner	55	10,741	
Cross-examination by Mr. Swystun	55	10,744	
Cross-examination by Mr. Garneau	55	10,770	
 <u>Thomas Jacob UNGER</u> , Aircraft Accident Investigator sworn	 50	 9,655	 Tues. Apr.22/80
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Cross-examination by Mr. Robertson	50	9,664	
Cross-examination by Mr. Keenan	50	9,755	
 <u>Capt. Clare WICKS</u> , Pilot. Introduced during submission of Canadian Air Line Pilots Association (CALPA)	 53	 10,437- 10,452	 Fri. Apr. 25/80
 <u>James WILSON</u> , Identified in Mr. Goostrey's evidence; Executive Assistant to the President of Air West at time of Air West Crash, sworn	 62	 12,384	 Fri. May 30/80
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Regional Vice-President of Canadian Brotherhood of Railway, Transport & General Workers (CBRT), Mountain Region			
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Albert Arthur BACH, sworn	56	11,071	Thurs., May 22/80
Regional Administrator, Canadian Air Transportation Administration (CATA) Pacific Region			
Examination by Mr. Sopinka	56	11,071	
Cross-examination by Ms. Swenarchuk	56	11,149	
Cross-examination by Mr. Keenan	56	11,157-11,170	
Melhi Rustum BANDRAVALA, affirmed	60	11,723	Wed., May 28/80
Regional Superintendent of Air Carrier Operations, Pacific Region			
Examination by Mr. Sopinka	60	11,723	
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Further examination by Mr. Sopinka	60	11,808	
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Thomas James BARNES, sworn	58	11,372	Mon., May 26/80
Civil Aviation Inspector, Enforcement Section, Canadian Air Transportation Administration (CATA) Pacific Region, Vancouver			
Examination by Mr. Mulhall	58	11,372-11,411	
recalled	59	11,413	Tues., May 27/80
Cross-examination by Mr. Robertson	59	11,413	
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Robert Nolan BAYNES, sworn	57	11,231	Fri., May 23/80
Chief Superintendent, RCMP, Operations Policy, Planning & Evaluation "E" Division, B.C.			
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Pilot, Island Airways, Campbell River, B.C.			
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Richard G. BOND, sworn	60	11,827	Wed., May 28/80
Taku Air Transport, Atlin, B.C.			
Examination by Mr. Messner	60	11,827	
Cross-examination by Mr. Garneau	60	11,892	
Examination by Mr. Sopinka	60	11,893	
Examination by the Commissioner	60	11,913	
Barbara DUNN, introduced	61	12,049	Thurs., May 29/80
National Safety Chairperson, Canadian Air Line Flight Attendants Association (CALFAA); submission for CALFAA			
Examination by Mr. Sopinka	61	12,049-12,066	
Examination continued jointly with S. Poole - see Shirley POOLE			
Albert Wesley FORTH, sworn	61	11,953	Thurs., May 29/80
Pilot, West Coast Air Services, Richmond, B.C.			
Examination by Mr. Sopinka	61	11,953-11,987	
Thomas O. GRIFFITHS - see List of Witnesses <u>Phase II</u>	61	12,224	Thurs. May 24/80
Terrence Brian HALVERSON, sworn	60	11,923	Wed., May 28/80
Pilot, Northern Thunderbird Air, Prince George, B.C.			
Examination by Mr. Mulhall	60	11,923	
Cross-examination by Ms. Swenarchuk	60	11,948	
Cross-examination by Mr. Garneau	60	11,949-11,951	
Daniel JOHNSON, sworn	59	11,462	Tues., May 27/80
President, Kelowna Fun Seekers			
Examination by Mr. Sopinka	59	11,462	
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Stuart KEATE - see List of Witnesses Phase II	61	12,126	Thurs., May 29/80

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Air Canada Pilot; Consultant to the Commission of Inquiry on Aviation Safety on Flight Operations			
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Donald MATHESON, sworn	59	11,652	Tues., May 27/80
Chief Pilot, Haida/Island Airlines, Campbell River, B.C.			
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Walter M. McLEISH, recalled	56	10,984	Thurs., May 22/80
Administrator of Canadian Air Transportation Administration (CATA), Ottawa			
Examination by Mr. Sopinka	56	10,984	
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Cross-examination by Mr. Keenan	56	11,033	
Cross-examination by Ms. Swenarchuk	56	11,044	
Cross-examination by Mr. Capern	56	11,052	
Further cross-examination by Mr. Robertson	56	11,061	
Cross-examination by Mr. Cottick	56	11,064-11,070	
John Stewart MELVIN, sworn	62	12,364	Fri., May 30/80
Regional Manager of Air Traffic Services, DOT Air Transportation Administration, Pacific Region			
Examination by Mr. Robertson	62	12,364-12,383	
Peter MESSNER, Counsel to Richard Bond. Submission with respect to Mr. Bond	60	11,914- 11,923	Wed., May 28/80
Donald W. MICHAUD, sworn	58	11,351	Mon., May 26/80
Former flight instructor Kelowna Fun Seekers			
Examination by Mr. Sopinka	58	11,351-11,364	
Russell Glen MINAKER, sworn	62	12,235	Fri., May 30/80
General Manager, West Coast Air Services, Richmond, B.C.			
Examination by Mr. Sopinka	62	12,235-12,241	

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Carl Patrick MORAN, sworn	59	11,594	Tues., May 27/80
Superintendent of Air Regulations, DOT Pacific Region			
Examination by Mr. Sopinka	59	11,594	
Cross-examination by Ms. Swenarchuk	59	11,619	
Cross-examination by Mr. Robertson	59	11,628-11,651	
recalled	60	11,684	Wed., May 28/80
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Cross-examination by Ms. Dunn	60	11,704	
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recalled	60	11,821	
Cross-examination by Mr. Messner	60	11,821	
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M.W. NEY, introduced	62	12,341	Fri., May 30/80
Chief of Maintenance RCMP Air Division			
Presentation of brief			
Examination by Mr. Mulhall	62	12,342-12,362	
Shirley Leone Marie POOLE, introduced	61	11,988	Thurs., May 29/80
National President, Canadian Air Line Flight Attendants Association (CALFAA); submission on behalf of CALFAA			
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Desmond Allen PRICE, sworn	62	12,318	Fri., May 30/80
Regional Aviation Safety Officer (& Air Carrier Inspector)			
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Donald Austin RICHARDSON, sworn	58	11,282	Mon., May 26/80
Supervisor, Flight Training Standards, DOT Pacific Region			
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Controller, J.R.T. Logging Group re Bute-Air Inc.		-11,372	
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Cecil Raymond SAMPERT, sworn	57	11,173	Fri., May 23/80
Examiner, Air Transport Committee, Vancouver			
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Thomas E. SIDDON - see List of Witnesses Phase II	58	11,255	Mon. May 26/80
Darrel Gordon SMITH, sworn	62	12,268	Fri., May 30/80
General Manager, Air West Airlines, Vancouver (formerly Regional Controller of Civil Aviation, Pacific Region)			
Examination by Mr. Sopinka	62	12,268	Fri., May 30/80
Cross-examination by Ms. Swenarchuk	62	12,297	
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Gerald C. STERNS - see List of Witnesses Phase II	61	12,143	Thurs., May 29/80
Craig THOMPSON, introduced	61	12,105	Thurs., May 29/80
Official of Park Air Ltd. (& Kelowna Custom Air) Statement re Kelowna Fun Seekers			
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Pilot, Gulf Air, Campbell River, B.C.			
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Stanley George WERESCHUK, sworn	62	12,244	Fri., May 30/80
Holder of Airline Transport Pilot's Licence and			
Aircraft Maintenance Engineer (re Air West)			
Examination by Mr. Sopinka	62	12,245	
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Self-employed Aircraft Maintenance Engineer, Sioux Lookout			
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<u>Pierre E. ARPIN</u> , sworn.....	66	13,256	Fri., June 27/80
Director General, Civil Aeronautics, Transport Canada			
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<u>George Robert AYRES</u> , sworn.....	65	13,022	Thurs., June 26/80
Co-owner, Superior Airways			
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<u>John BARKMAN</u> , Sachigo Lake Band submission	69	13,935	Wed. July 2/80
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<u>Francis Willard BAYNE</u> , sworn.....	65	13,104	Thurs., June 26/80
Chief Flying Instructor, Confederation College, Thunder Bay, Ontario			
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<u>James BIGGS</u> , sworn	69	13,792	Wed., July 2/80
Chief Pilot, Bearskin Airlines			
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<u>Kenneth BITTLE</u> , sworn	69	13,922	Wed., July 2/80
Base Engineer, Austin Air, Sioux Lookout			
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<u>Thomas BRENNAN</u> , sworn.....	64	12,791	Wed., June 25/80
Flight Instructor, self-employed, Victoria, B.C.			
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Avionics Maintenance Co-ordinator, Confederation College			
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Supervisor of Aircraft Licences, Transport Canada			
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Cross-Examination by Ms. Swenarchuk.....	64	12,986	
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<u>John CHYK</u> , sworn	69	13,877	Wed., July 2/80
President, Slate Falls Airways			
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<u>Joseph Charles CRISANTE</u> , sworn.....	65	13,127	Thurs., June 26/80
Mechanical Foreman, Ministry of Transport and Communications			
Examination by Mr. Sopinka.....	65	13,127	
Cross-Examination by Ms. Swenarchuk.....	65	13,136	
Cross-Examination by Mr. Zlotkin.....	65	13,136	
Cross-Examination by Mr. Nobbs.....	65	13,137	
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<u>Ronald DAVIE</u> , sworn.....	65	13,209	Thurs., June 26/80
General Manager of Lambair, Thompson, Manitoba			
Examination by Mr. Kelly.....	65	13,209	
Cross-Examination by Mr. Nobbs.....	65	13,245	
Cross-Examination by Mr. Zlotkin.....	65	13,250	
<u>Aldo FAVOT</u> , sworn	69	13,739	Wed., July 2/80
Councillor. Submission on behalf of the Corporation of the Town of Sioux Lookout.			
<u>George FRASER</u> , sworn	69	13,765	Wed., July 2/80
Flight Service Specialist, Sioux Lookout Airport			
Examination by Mr. Sopinka	69	13,765	
<u>Harvey FRIESEN</u> , sworn	69	13,816	Wed., July 2/80
Owner, President & Operations Manager, Bearskin Lake Lake Air Services			
Examination by Mr. Sopinka	69	13,816	
<u>Dr. Wilfred Gary GOLDTHORPE</u> , sworn	69	13,837	Wed., July 2/80
Medical Practitioner, Sioux Lookout Zone Hospital			
Examination by Mr. Kelly	69	13,838	
<u>Gordon HILL</u> , sworn	69	13,678	Wed., July 2/80
Former flying instructor Sioux Lookout Flying Club; as of May 1/80 Pilot, Central Air Transport, Sioux Lookout			
Examination by Mr. Sopinka	69	13,678	
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<u>Gerald Eldon HOLMSTROM</u> , sworn.....	66	13,386	Fri., June 27/80
Air Traffic Controller, Transport Canada			
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Cross-Examination by Mr. Fiorita.....	66	13,452	
Re-Examination by Mr. Robertson.....	66	13,467	
 <u>Donald HOOD</u> , sworn.....	 65	 13,180	 Thurs., June 26/80
Audiologist, Thupder Bay, Ontario			
Examination by Mr. Sopinka.....	65	13,180	
 <u>J. W. HOSTETLER</u> , President, Red Lake Flying Club	 69	 13,710	 Wed., July 2/80
Examination by Mr. Sopinka	69	13,711	
 <u>(Greg) Barry HOUSTON</u> , sworn	 69	 13,904	 Wed., July 2/80
Former Chief Engineer Slate Falls Airways; at present Aircraft Maintenance Engineer, Ministry of Natural Resources, Sioux Lookout			
Examination by Mr. Sopinka	69	13,905	
 <u>Sally IRWIN</u> , sworn	 69	 13,751	 Wed., July 2/80
Nurse, Sioux Lookout Zone Hospital			
Examination by Mr. Sopinka	69	13,751	
 <u>Russell Paul KILLAIRE</u> , sworn.....	 65	 13,048	 Thurs., June 26/80
Senior Aviation Planner, Ministry of Transportation and Communications			
Examination by Mr. Sopinka.....	65	13,048	
 <u>Sergeant John LAMB</u> , sworn.....	 64	 12,853	 Wed., June 25/80
Detachment Commander, RCMP, Kenora Branch			
Examination by Mr. Kelly.....	64	12,853	
Cross-Examination by Ms. Swenarchuk.....	64	12,883	
Cross-Examination by Mr. Zlotkin.....	64	12,884	
Re-Examination by Mr. Kelly.....	64	12,889	
Further Cross-Examination by Mr. Fiorita.....	64	12,893	
 <u>Lesley LOUTTIT</u>	 65		 Thurs., June 26/80
Grand Council Treaty #9			
Examination by Mr. Zlotkin.....	65	13,073	
Examination by Mr. Sopinka.....	65	13,100	
 <u>Corporal Donald S. MACKENZIE</u> , sworn.....	 64	 12,894	 Wed., June 25/80
RCMP, General Investigation Section, Thunder Bay			
Examination by Mr. Kelly.....	64	12,894	
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<u>William RANNEY, sworn.....</u>	64	12,915	Wed., June 25/80
Manager, Remote Northern Transportation, Ministry of Transportation and Communications			
Examination by Mr. Sopinka.....	64	12,915	
Cross-Examination by Mr. Zlotkin.....	64	12,936	
Cross-Examination by Mr. Fiorita.....	64	12,944	
 <u>Barry Alexander SAUNDERS, sworn.....</u>	66	13,470	Fri., June 27/80
Air Traffic Controller, Kenora			
Examination by Mr. Robertson.....	66	13,470	
Cross-Examination by Mr. Fiorita.....	66	13,484	
 <u>Roderick William SLAUGHTER, sworn.....</u>	63	12,415	Tues., June 24/80
Regional Superintendent of Air Regulations for the Central Region			
Examination by Mr. Sopinka.....	63	12,415	
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Cross-Examination by Mr. Nobbs.....	64	12,692	
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 <u>Ross Kenneth WOODWARD, sworn.....</u>	64	12,998	Wed., June 25/80
Calm Air, Lynn Lake, Manitoba			
Examination by Mr. Kelly.....	64	12,998	

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<u>Paul BIBEAU</u>	74	14,806	Wed., July 23/80
Air Traffic Controller, Dorval Airport, Montreal			
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<u>Laurent CHARTIER</u> , sworn	70	13,961	Mon., July 7/80
Regional Controller of Civil Aviation, Quebec Region, Transport Canada			
Examination by Mr. Ouellet	70	13,961	
Cross-examination by Mr. Nobbs	70	14,010	
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Cross-examination by Mr. B. Tilroe	72	14,322	
Cross-examination by Mr. Garneau	72	14,326	
<u>Wilfrid CUSSON</u> , sworn	72	14,434	Mon., July 21/80
Regional Superintendent of the Division Inspection and Certification of Air Carriers, Quebec Region, Transport Canada			
Examination by Mr. Ouellet	72	14,434	
Examination by Mr. Ouellet (recalled)	73	14,515	Tues., July 22/80
Cross-examination by Ms. Swenarchuk	73	14,550	
Re-examination by Mr. Ouellet	73	14,554	
<u>Harold Leslie DEYARMOND</u> , sworn	71	14,226	Tues., July 8/80
Regional Controller Civil Aviation, Atlantic Region, Transport Canada			
Examination by Mr. Sopinka	71	14,227	
Cross-examination by Ms. Swenarchuk	71	14,247	
<u>Serge DORION</u> , sworn	74	74,883	Wed., July 23/80
Air Traffic Controller Quebec Airport			
Examination by Mr. Ouellet	74	14,883	
<u>Albert FORTIER</u> , sworn	73	14,556	Tues., July 22/80
President of Air Gava			
Examination by Mr. Desrosiers	73	14,556	

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<u>Charles MACDONALD</u> , sworn	74	14,985	Wed., July 23/80
Flight Services Specialist Quebec Region, Transport Canada			
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<u>Walter M. McLEISH</u> ,			
Administrator, Canadian Air Transportation Administration (CATA)			
Examination by Mr. Sopinka	71	14,182	Tues., July 8/80
Cross-examination by Mr. Nobbs	71	14,190	
Cross-examination by Mr. Robertson	71	14,192	
Cross examination by Ms. Swenarchuk	71	14,198	
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Cross-examination by Ms. Swenarchuk	71	14,282	
Cross-examination by Mr. Desrosiers	73	14,575	Tues., July 22/80
Cross-examination by Mr. Garneau	74	14,764	Wed., July 23/80
Cross-examination by Ms. Swenarchuk	74	14,796	
<u>Pierre MENARD</u> , sworn	72	14,455	Mon., July 21/80
Pilot with Québec-Air			
Examination by Mr. Ouellet	72	14,455	
Examination by Mr. Ouellet	73	14,508	
Cross-examination by Mr. Desrosiers	73	14,510	
<u>André PAULIN</u> , sworn	72	14,328	Mon., July 21/80
Superintendent of the Air Safety Investigations Division, Quebec Region, Transport Canada			
Examination by Mr. Ouellet	72	14,329	
Cross-examination by Mr. Desrosiers	72	14,426	
<u>Pierre RIVEST</u> , sworn	73	14,580	Tues., July 22/80
Director of Air Transport Directorate, Quebec Ministry of Transport			
Examination by Mr. Ouellet	73	14,580	
Cross-examination by Mr. Tilroe	73	14,734	
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<u>David Charles SLAYTER</u> , recalled	71	14,203	Tues., July 8/80
Calibration Pilot, Airways Division			
Atlantic Region, Transport Canada			
Examination by Mr. Sopinka	71	14,203	
Cross-examination by Ms. Swenarchuk	71	14,223	
Cross-examination by Mr. Garneau	71	14,225	
 <u>Dean Daniel WAGNER</u> , sworn	 70	 14,031	 Mon., July 7/80
Regional Superintendent of Air			
Regulations, Quebec Region, Transport			
Canada			
Examination by Mr. Ouellet	70	14,032	Mon., July 7/80
Cross-examination by Mr. Robertson	70	14,136	
Cross-examination by Mr. Nobbs	70	14,142	
Re-examination by Mr. Ouellet	73	14,569	Tues., July 22/80
 <u>L. WILDHABER</u> , sworn	 70	 14,155	
Regional Superintendent of Aeronautic			
Technology, Quebec Region,			
Transport Canada			
Examination by Mr. Ouellet	70	14,155	Mon., July 7/80
Examination by Mr. Ouellet	72	14,291	Mon., July 21/80
Cross-examination by Mr. Garneau	72	14,304	Mon., July 21/80

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Enforcement Officer, Atlantic Region, Transport Canada			
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Cross-examination by Ms. Swenarchuk	76	15,359	
Cross-examination by Mr. Keenan	76	15,364	
Cross-examination by Mr. Garneau	76	15,372	
Cross-examination by Ms. Swenarchuk	76	15,376	
Cross-examination by Mr. Nobbs	76	15,377	
 <u>Dr. Shirley Ann CONOVER</u> , sworn	 77	 15,490	 July 30/80
Vice President of MacLaren, Marex Inc.			
Examination by Mr. Kelly	77	15,491	July 30/80
Cross-examination by Mr. Garneau	77	15,514	
 <u>Edward JENSEN</u> , recalled	 77	 15,673	 July 30/80
President of the Aircraft Operations Group of the Canadian Union of Professional & Technical Employees			
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Examination by Mr. Sopinka	78	15,735	July 31/80
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Cross-examination by Mr. Livingston	78	15,750	
Cross-examination by Mr. Garneau	78	15,762	
 <u>Ralph LORD</u> , sworn	 75	 15,057	 Mon., July 28/80
Regional Superintendent of Air Regulations, Atlantic Region, Transport Canada			
Examination by Mr. Sopinka	75	15,057	Tues., July 28/80
Cross-examination by Ms. Swenarchuk	76	15,253	Tues., July 29/80
Cross-examination by Mr. Keenan	76	15,268	
Cross-examination by Mr. Garneau	76	15,283	
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Cross-examination by Mr. Nobbs	76	15,301	
Further examination by Mr. Sopinka	76	15,304	
 <u>W. John McNULTY</u> , sworn	 78	 15,800	 July 31/80
Curl Aviation Inspector Western Region Transport Canada			
Examination by Mr. Kelly	78	15,800	
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<u>Douglas RICHARD</u> , called	78	15,771	July 31/80
Lawyer, Department of Justice			
Atlantic Region			
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 <u>John Aubrey RICHARD</u> , sworn	78	15,884	July 31/80
Owner of Eastern Flying Services Limited			
Examination by Mr. Sopinka	78	15,885	July 31/80
 <u>David SLAYTER</u> ,	77	15,516	July 30/80
Airways Inspector, Atlantic Region,			
Transport Canada			
Examination by Mr. Sopinka	77	15,517	
Examination by Ms. Swenarchuk	77	15,626	
Cross-examination by Mr. Keenan	77	15,634	
Cross-examination by Mr. Nobbs	77	15,637	
Cross-examination by Mr. Livingston	77	15,653	
Cross-examination by Mr. Garneau	77	15,663	
 <u>Vern R. SPEIRAN</u> , sworn	76	15,388	July 29/80
Supervisor of Licensing and			
Instrument Standards, Atlantic Region,			
Transport Canada			
Examination by Mr. Sopinka	76	15,389	
Cross-examination by Mr. Nobbs	76	15,468	
Cross-examination by Mr. Garneau	77	15,475	July 30/80
 <u>Eric TALL</u> , sworn	78	15,931	July 31/80
Owner of Atlant Air Limited			
Examination by Mr. Sopinka	78	15,931	

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P. E. ARPIN, Director General, Civil Aeronautics, Transport Canada, recalled (Sworn Phase III, Vol.66)	80	16,271	Toronto Tues. Aug. 19/80
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Cross-examination by Ms. Swenarchuk	80	16,299	
Examination by Mr. Sopinka	80	16,308-16,317	
resumed	81	16,318	Wed. Aug. 20/80
Examination by Mr. Sopinka	81	16,318	
Cross-examination by Mr. Robertson	81	16,396-16,397	
Floyd GLASS, sworn	100	20,782	Edmonton Tues. Oct. 7/80
Co-owner Athabaska Airways, Prince Albert, Sask.			
Examiné by Mr. Sanderson	100	20,782	
Examiné by Mr. Sopinka	100	20,813	
J. T. KEENAN, Submission on behalf of Canadian Air Line Pilots Association (CALPA)	79	16,113	Toronto Mon. Aug. 18/80
On conclusion of presentation, questioned by Mr. Sopinka	79	16,130-16,140	
Robert LAFLEUR, Director of the Aeronautics Act Task Force (& Director of Standards in Licensing, CATA), introduced	80	16,142	Toronto Tues. Aug. 19/80
Examination by Mr. Sopinka	80	16,142	
Cross-examination by Ms. Swenarchuk	80	16,226	
Cross-examination by Mr. Robertson	80	16,233	
Cross-examination by Mr. Nobbs	80	16,238	
Cross-examination by Mr. Keenan	80	16,248	
Cross-examination by Mr. Garneau	80	16,252	
Further examination by Mr. Sopinka	80	16,260-16,269	
Donald Earl LAMONT, Director, Aeronautical Licensing & Inspection, recalled (Sworn Phase I, Vol. 11, page 1,798)	81	16,398	Toronto Wed. Aug. 20/80
Examination by Mr. Garneau	81	16,399	
Cross-examination by Ms. Swenarchuk	81	16,466	
Cross-examination by Mr. Keenan	81	16,490	
Cross-examination by Mr. Robertson	81	16,505	
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Roy MATHIESON, sworn	100	20,858	Edmonton
Assistant Chief Engineer, Athabaska Airways, Prince Albert. Sask.			Tues. Oct. 7/80
Examined by Mr. Sanderson	100	20,858	
recalled	101	20,927	Edmonton
Examined by Mr. Sopinka	101	20,928	Wed. Oct. 8/80
Walter M. McLEISH, Administrator, Canadian Air Transportation Administration (Sworn Phase I, Vol. 2 Page 85)	82	16,580	Toronto Thurs. Aug. 21/80
Remarks by Mr. McLeish	82	16,580	
Comments by representatives of interested parties	82	16,625	
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E. NOBBS, Legal Counsel for ATAC Submission on behalf of Air Transport Association of Canada (ATAC)	79	15,966-16,022	Toronto Mon. Aug. 18/80
W. ROBERTSON, Submission on behalf of Canadian Air Traffic Control Association, Inc. (CATCA)	79	16,025	Toronto Mon. Aug. 18/80
On conclusion of presentation, questioned by Mr. Sopinka	79	16,091	
Questioned by Ms. Swenarchuk	79	16,104-16,111	
Russell John THATCHER, sworn	101	20,953	Edmonton
Consultant to the Commission of Inquiry			Wed. Oct. 8/80
Examined by Mr. Sopinka	101	20,953	
Examined by Mr. Sanderson	101	20,970	

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Pierre ARPIN, recalled	115	23,970	Wed. Nov. 5/80
Director General, Civil Aeronautics, Transport Canada. (Sworn Phase III, Vol. 66, p. 13,256)			
RE: Exhibit IV-57, Document containing information on St. Catherines VHF/DF, Flight Service Station Contingency Plan, Runway Visual Range - Vancouver, No Alternate Fuel.	115	23,969	
Exhibit IV-58, Document regarding Enforcement Study of Cranbrook and Watson Lake and Response to the Ontario North-land Transportation Commission brief.....	115	23,970	Wed. Nov. 5/80
Examination by Mr. Fiorita	115	23,971	
Questions by Ms. Swenarchuk	115	23,992	
Cross Examination by Mr. Dooling	115	23,993	
Cross Examination by Mr. Tilroe	115	23,995	
Cross Examination by Mr. Keenan	115	24,002	
Examination by Mr. Sopinka	115	24,005	
 William BAIN, sworn	 89	 18,084	 Mon. Sept.22/80
Aeronautical Licensing & Inspection Branch, Transport Canada, Airport Control & Flight Information Services			
Examined by Mr. Ouellet	89	18,084	
Cross-examination by Mr. Cooper*	89	18,156	
Cross-examination by Mr. Fiorita	89	18,162	
 Wayne BARRY, sworn	 92	 18,841	 Thurs.Sept.25/80
Air Traffic Controller, Toronto International Airport			
RE: Equipment at TIA			
Examination by Mr. Sopinka	92	18,841	
Examination by Mr. Robertson	92	18,901	
Cross-examination by Ms. Swenarchuk	92	18,904	
Cross-examination by Mr. Nobbs	92	18,905	
Comments by Mr. Robertson	92	18,912	

* S. Cooper, Association of Professional Radio Operators and Union of Canadian Transport Employees

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Don BATEMAN, called Manager for New Systems & Product, Sundstrand. Part of CALPA presentation - slides on Ground Proximity Warning System (GPWS)	99	20,513	Edmonton Mon. Oct. 6/80
Examined by Mr. Sopinka	99	20,516	
Examined by Mr. Keenan	99	20,523	
Re-examined by Mr. Sopinka	99	20,524	
Alan M. BAXTER, sworn Standards Officer, Operations & Liaison Div., Air Traffic Services Branch, Civil Aeronautics Directorate	86	17,361	Toronto Wed. Sept. 10/80
Examination by Mr. Sopinka	86	17,361	
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Capt. Anthony BEATTY, called (with Arthur B. CAMERON) RE: CALPA BRIEF CP Air Pilot; CALPA Chairman and member CALPA All-Weather Operations Committee; Vice-Chairman of Operations Study Group, International Federation of Air Line Pilots (IFALPA); Advisor to the Operations Panel of Int'l Civil Aviation Organization (ICAO)	99	20,456	Edmonton Mon. Oct. 6/80
Examined by Mr. Keenan	99	20,456	
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Examination by Mr. Sopinka	99	20,610	
Comments by Mr. Sims	99	20,637	
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** During the week of September 8th, 1980, CATCA represented by J. Livingston and E. Staples.

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Russell B. BEECH, sworn 92 President, Canadian Owners & Pilots Assoc. (COPA) (and Vice-President, Int'l Aircraft Owners & Pilots Association). RE: COPA BRIEF	18,914		Toronto Thurs. Sept. 25/80
Examined by Me Ouellet 92	18,914		
John BELCHER, sworn 91 Director, Telecommunications & Electronics Branch (Air), DOT, Ottawa	18,748		Toronto Wed. Sept. 24/80
Comments on IBEW evidence on maintenance philosophy .. 91	18,749		
Cross-examined by Mr. Robertson 91	18,768		
Examined by Mr. Sopinka 91	18,781		
recalled 92	18,798		Toronto
Cross-examined by Gary Myers 92	18,798		Thurs. Sept. 25/80
recalled 114	23,622		Tues. Nov. 4/80
RE:			
Exhibit IV-49: Use of the Phonetic Alphabet in Air/Ground Communications" 114	23,642		
Exhibit IV-50: Brief on Calgary Traffic Watch 114	23,651		
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Exhibit IV-51: Terminal Radar Service Area (TRSA) 114	23,659		
Exhibit IV-52: Canadian Air Traffic Services Radar Systems 114	23,698		
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Exhibit IV-54: No. 17, The Canadian Flight Service Station (Aeradio Station) 114	23,742		
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Examination by Mr. Sopinka 114	23,761		
recalled 115 (Joins Mr. P. Proulx)	23,857		Wed. Nov. 5/80
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<u>Paul BIBEAU</u> , recalled (with Fred Petrauskas) sworn	84	16,970	Toronto Mon. Sept. 8/80
Air Traffic Controller, Dorval Airport, Montreal; Chairman, Safety Committee, Montreal Branch CATCA. First appearance, in Quebec City, July 23, Vol. 74, p. 14,806 - see Phase III-Quebec Region Witnesses).			
Preliminary remarks by Me Doyon, Counsel for Gens de l'air du Quebec	84	16,965	
Remarks by the Commissioner	84	16,968	
Cross-examination by Mr. Garneau	84	16,971	
Examination by Me Doyon	84	17,038	
Examination by Mr. Sopinka	84	17,040-17,063	
<u>Syd BUCKLEY</u> (and Larry SMITH), sworn	88	17,949	Fri. Sept. 12/80
Regional Representative, Public Service Alliance of Canada (RE: PSA BRIEF, Section beginning page 1, "Flight Service Specialists")			
Examination by Mr. Ouellet	88	17,949	
Cross-examination by Mr. Livingstone	88	17,981-17,985	
<u>Charles F. BURBANK</u> , recalled	103	21,226	Toronto Mon. Oct. 20/80
Previously sworn, Phase I, Volume 26, p. 4,874			
Examined by Mr. Sopinka	103	21,227	
Comments by Mr. Nobbs	103	21,294	
Comments by Mr. Sims	103	21,297	
<u>David McLean BUTLER</u> , sworn	93	19,110	Toronto Fri. Sept. 26/80
President, Goodwood Data Systems (Brief re Industrial Aspects in Safety in Aviation)			
Examined by Me Ouellet	93	19,110	
Cross-examined by Mr. Sims	93	19,134	
Cross-examined by Mr. Capern	93	19,138	
<u>Arthur B. CAMERON</u> , called (with A. BEATTY) ..	99	20,456	Edmonton Mon. Oct. 6/80
CP Air Pilot; CALPA Headquarters Chairman for Technical & Safety Division. RE: CALPA BRIEF - SEE A. BEATTY			
<u>Steven G. COOPER</u> , sworn	103	19,024	Toronto Fri. Sept. 26/80
President, Local 0003, Union of Canadian Transport Employees and Chairman, Association of Professional Radio Operators for Ontario			
Examined by Me Ouellet	103	19,024	
Cross-examined by Mr. Sims	103	19,068	
Cross-examined by Mr. Myers	103	19,076	

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	<u>Vol.</u>	<u>Page</u>	<u>Hearing Date</u>
Dennis George COULTER, sworn 94 (I.B.E.W.); DOT Quality Assurance Division (Division responsible for auditing flight service stations and electronic systems to prescribed standards)	19,180		Cranbrook Mon. Sept. 29/80
Examined by Me Ouellet 94	19,180		
Robert G. COX, sworn 88 Air Traffic Control Specialist (RE: PSA BRIEF, Section beginning page 5, "Air Traffic Control Specialist")	17,986		Toronto Fri. Sept. 12/80
Examination by Mr. Ouellet 88	17,986-18,002		
Michael CREASY, sworn (WITH J.R. OLMSTEAD) .. 95 Air Operator Officer, B.C. Ministry of Transportation & Highways - <u>SEE J.R. OLMSTEAD</u>	19,382		Cranbrook Tues. Sept. 30/80
Ron DALEY, called (joined A. BEATTY and A.B. CAMERON) - <u>SEE A.B. CAMERON</u> Air Canada Pilot. RE: CALPA BRIEF	99 20,561		Edmonton Mon. Oct. 6/80
Lt. Col. John Edward DARDIER, sworn 87 Section Head of Search & Rescue, Director of Air Operations Training, National Defence Headquarters	17,735		Toronto Thurs. Sept. 11/80
Examination by Mr. Ouellet 87	17,735		
Cross-examination by Mr. Sims 87	17,774		
Cross-examination by Mr. Capern 87	17,781-17,793		
Alfred Carl FISHER, sworn 95 Air Traffic Controller, Winnipeg Terminal Control Unit; CATCA Central Regional Director & CATCA Chairman of the Joint CATCA/DOT Joint Technical Committee (JTC) (Re: Unit closures, p. 636, IV-21 and radar/radar modernization program)	19,562		Cranbrook Tues. Sept. 30/80
Examined by Mr. Robertson 95	19,562		
Gerald F. FLUCKE (with Joseph K. PACHOLIK), sworn 88 Supervisor of Technical Support Training, Meteorological Training Centre - RE: PSA BRIEF, beginning page 9, Atmospheric Environmental Service - <u>SEE - Joseph K. PACHOLIK</u>	18,003		Toronto Fri. Sept. 12/80

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Donald Maurice FORSLAND, sworn 86	17,439		Toronto
Supervisor of Controlled Airspace Requirements, Air Space & Procedures Div., Air Traffic Control, DOT, Ottawa			Wed. Sept. 10/80
Examination by Mr. Ouellet 86	17,439		
Cross-examination by Mr. Livingstone 86	17,503		
Cross-examination by Mr. Capern 86	17,519		
Cross-examination by Mr. Fiorita 86	17,522-17,523		
Thomas Harold GILLMAN, sworn 86	17,525		Wed. Sept. 10/80
Electrical Engineering Div., Pulse Industrial Electronics Ltd. (Consulting Engineering firm) Winnipeg			Toronto
Examination by Mr. Fleming 86	17,525-17,578		
Norman Frederick HALL, sworn 87	17,660		Thurs. Sept. 11/80
Superintendent Electrical Services, Utility Div. of the Aircraft Facilities Branch, Airport Directorate			Toronto
Examination by Mr. Sopinka 87	17,660		
Cross-examination by Mr. Capern 87	17,725-17,734		
Lt. Col. Ronald William HAWKINS, sworn 88	17,796		Fri. Sept. 12/80
Director of Air Regulations & Air Traffic Services, National Defence Headquarters			Toronto
Examination by Mr. Ouellet 88	17,796		
Cross-examination by Mr. Livingstone 88	17,833		
Cross-examination by Mr. Capern 88	17,840-17,844		
Barbara Hill HERSHING, sworn 92	19,012		Toronto
Flight Attendant; crew member on Flight 442 July 7, 1980)			Thurs. Sept. 25/80
Examined by Me Ouellet 92	19,012		
Richard M. KILTZ, called 99	20,603		Edmonton
(Part of CALPA presentation - slide presentation on Head-up Display)			Mon. Oct. 6/80
Gaston LABONTE, sworn (with R. VIGEANT) . 90	18,425		Toronto
Contrôleur, Dorval Tower, Montreal (Part of CATCA presentation) - <u>SEE R. VIGEANT</u>			Tues. Sept. 23/80
Richard LeBLANC, sworn 103	21,306		Toronto
Manager, Special Projects on Search & Rescue, DOT			Mon. Oct. 20/80
Examined by Me Ouellet 103	21,306		

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Arthur Raymond LEE, sworn (with Gary MYERS) Maintenance Liaison Officer, Vancouver, Air Traffic Control Centre & Vice-President of IBEW Local 2228 - SEE Gary MYERS	89	18,212	Toronto Mon. Sept. 22/80
resumed (with Gary MYERS) - SEE Gary MYERS	90	18,350	Toronto Tues. Sept. 23/80
David Alexander LEE, sworn DOT Superintendent of System Procedures, ATS Ontario Region (Re "Windsor Airspace and Procedures", Exhibit IV-32)	93	19,080	Toronto Fri. Sept. 26/80
Examined by John Sopinka	93	19,080	
Frederick LUCAS, sworn District Airworthiness Inspector, DOT Ottawa (on Air Canada Flight 422, Toronto-Ottawa, July 7, 1980)	92	18,974	Toronto Thurs. Sept. 25/80
Examined by Me Ouellet	92	18,974	
Cross-examined by Mr. Nobbs	92	18,987	
George MacDONALD, introduced (with Bert Weeks, Mayor, City of Windsor) Representative Windsor Chamber of Commerce - SEE Bert WEEKS	91	18,596	Toronto Wed. Sept. 24/80
Donald James MacLACHLAN, sworn Tower Terminal Manager, Toronto International Airport	87	17,612	Thurs. Sept. 11/ Toronto
Examination by Mr. Sopinka	87	17,612	
Cross-examination by Mr. Sims	87	17,646	
Cross-examination by Mr. Livingstone	87	17,652	
Questioned by the Commissioner	87	17,658-17,660	
James Arthur William McCULLOCH, sworn Director General of Field Services, Atmospheric & Environmental Service, Environment Canada	88	18,049	Fri. Sept. 12/80 Toronto
Examination by Mr. Fleming	88	18,049-18,080	
Alan Norman McGREGOR, sworn Air Traffic Controller, Halifax Tower (re items in CATCA Brief, Exhibit IV-21, Volume II, "Unit Closures", page 623)	91	18,670	Toronto Wed. Sept. 24/80
Examined by Me Ouellet	91	18,670	

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Walter McLEISH Administrator, CATA	103	21,433	Toronto Mon. Oct. 20/80
Comments by Mr. McLeish, interspersed with questions by the Commissioner	103	21,433	
Examined by Me Ouellet	103	21,442	
Cross-examined by Ms. Swenarchuk	103	21,468	
recalled	116	24,199	Tues. Nov. 11/80
RE: Exhibit IV-58A: Concept Paper No. 14..	116	24,285	
Examination by Mr. Sims	116	24,199	
Cross-Examination by Mr. Dooling	116	24,291	
Cross-Examination by Mr. Livingston	116	24,293	
Examination by Mr. Sopinka	116	24,307	
David MERRITT, sworn (with Max VERMIJ) Civil Aviation Inspector, CATA Headquarters, Ottawa	103	21,349	Toronto Mon. Oct. 20/80
Examined by Me Ouellet	103	21,349	
Cross-examined by Mr. Sims	103	21,410	
Peter James MINCHIN, sworn	90	18,518	Toronto Tues. Sept. 23/80
Air Traffic Controller, St. Catharines Control Tower (re CATCA Brief)			
Examined by Mr. Sopinka	90	18,518	
Comments by Mr. Garneau	90	18,558	
Cross-examined by Mr. Myers (IBEW)	90	18,560	
recalled	91	18,582	Toronto
Examined by Mr. Sopinka continued	91	18,582	Wed. Sept. 24/80
John MORNAN, sworn	89	18,169	Toronto Mon. Sept. 22/80
Officer in charge of the weather office in Windsor, Ont. (appeared as private citizen)			
Examined by Mr. Sopinka	89	18,169	
Cross-examined by Mr. Cooper	89	18,208	
Gary MYERS, sworn (with A.R. LEE)	89	18,212	Toronto Mon. Sept. 22/80
Business Manager, Local 2228 International Brotherhood of Electrical Workers (IBEW)			
Examined by Mr. Sopinka	89	18,212	
resumed (with A.R. LEE)	90	18,350	Toronto
Examination by Mr. Sopinka continued ...	90	18,350	Tues. Sept. 23/80
Cross-examined by Mr. Robertson	90	18,391	
Cross-examined by Mr. Cooper	90	18,410	
Comments by Mr. Garneau	90	18,413	
Comments by Ms. Swenarchuk	90	18,414	

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John R. OLMSTEAD, sworn (with M. CREASY)	95	19,382	Cranbrook
Acting Director, Province of B.C. Transport			Tues. Sept. 30/80
Policy Analysis Branch, B.C. Ministry of			
Transportation & Highways, Victoria, B.C.			
Examined by Mr. Sopinka	95	19,382	
Robert L. ORCUTT, sworn	91	18,684	Toronto
Performance Development Officer, Vancouver Tower			Wed. Sept. 24/80
(re RVR Vancouver International Airport)			
Examined by Mr. Sopinka	91	18,684	
Comments by Mr. Robertson	91	18,736	
Comments by Mr. Sims	91	18,738	
Comments by Mr. Myers	91	18,740	
Comments by Mr. Sopinka	91	18,745	
Joseph K. PACHOLIK (with Gerald F. FLUCKE),			
sworn	88	18,003	Fri. Sept. 12/80
Meteorological Specialist (RE: PSA BRIEF,			Toronto
section beginning page 9, Atmospheric			
Environmental Service)			
Examination by Mr. Ouellet	88	18,003	
Cross-examination by Mr. Capern	88	18,043-18,048	
Trevor PAINE, sworn	85	17,153	Tues. Sept. 9/80
Acting Chief, Systems & Equipment Division,			Toronto
Air Traffic Services, DOT			
Introduction by Mr. Fiorita	85	17,153	
Presentation by Mr. Paine,	85	17,157	
interspersed with questions by The Commissioner,			
Mr. Garneau		17,172-17,175	
and Mr. Sopinka		17,241-17,248	
Examination by Mr. Fiorita	85	17,261	
Questioned by the Commissioner	85	17,274	
Examination by Mr. Garneau	85	17,278	
Cross-examination by Mr. Livingston	85	17,287	
Examination by Mr. Sopinka	85	17,320	
Cross-examination by Mr. Petrauskas	85	17,337	
Questioned by the Commissioner	85	17,358-17,359	
recalled	91	18,578	Toronto
Statement on matters addressed to the			Wed. Sept. 24/80
Commission on Tues. Sept. 23, re DORVAL			
AIRPORT permanent communication link)			

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Capt. B. PEDERSEN, sworn	92	18,990	Toronto
Air Canada Pilot (re Flight 442 on July 7/80)			Thurs. Sept. 25/80
Examined by Me Ouellet	92	18,990	
Derek PERRY, sworn	84	16,872	Mon. Sept. 8/80
Superintendent of National Airspace Planning			Toronto
Section, Aeronautical Policy Planning			
Programming & Development Branch, Civil			
Aeronautics Directorate			
Examination by Mr. Sopinka	84	16,872-16,963	Toronto
recalled	85	17,065	Tues. Sept. 9/80
Examination by Mr. Sopinka continued	85	17,065	
Cross-examination by Mr. Livingstone	85	17,120-17,125	
Fred PETRAUSKAS, called to stand (with Paul			Toronto
BIBEAU)	84	16,970	Mon. Sept. 8/80
Chairman, Montreal Branch, CATCA - see Paul BIBEAU			
Marcel PIRART, sworn	95	19,452	Cranbrook
Certified Engineering Technologist (C.E.T.);			Tues. Sept. 30/80
Transport Canada Maintenance Specialist;			
Supervisor of Special Services (EL-6)			
Vancouver Area Transport Area Manager (TAM)			
Examined by Mr. Fleming	95	19,452	
Pierre PROULX, recalled	114	23,622	Tues. Nov. 4/80
Director, Air Traffic Services, DOT, Ottawa			
(Sworn Phase II, Vol. 40, p. 7756)			
RE:			
Exhibit IV-49: Use of the Phonetic			
Alphabet in Air/Ground Communication....	114	23,642	
Exhibit IV-50: Brief on Calgary Traffic			
Watch	114	23,651	
Exhibit IV-50A: CATCA's Comments on			
Calgary Traffic Watch	114	23,651	
Exhibit IV-51: Terminal Radar Service			
Area (TRSA)	114	23,659	
Exhibit IV-52: Canadian Air Traffic			
Services Radar Systems	114	23,698	
Exhibit IV-53: Interference to Radio			
Aids	114	23,741	

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<u>Pierre PROULX</u> (continuation)			
Exhibit IV-54: No. 17, The Canadian Flight Service Station (Aeradio Station)	114	23,742	Tues. Nov. 4/80
Exhibit IV-55: Maintenance of Electronic Equipment	114	23,745	
Examination by Mr. Fiorita	114	23,623	
Cross Examination by Mr. Dooling	114	23,754	
Cross Examination by Mr. Schneiderman	114	23,758	
Examination by Mr. Sopinka	114	23,761	
recalled (Joins Mr. Belcher)	115	23,857	Wed. Nov. 5/80
Examination by Mr. Sopinka (continued)...	115	23,857	
<u>John REDMOND</u> , sworn	91	18,609	Toronto
Safety Chairman, CATCA St. Catharines Branch (re CATCA Brief, Vol. 2, p. 481, "Niagara Falls")			Wed. Sept. 24/80
Examined by Mr. Sopinka	91	18,609	
Cross-examined by Mr. Robertson	91	18,667	
<u>John RICHARDS</u> , sworn	88	17,844	Fri. Sept. 12/80
Chief of Aviation Safety Promotion Div., DOT			Toronto
Examination by Mr. Ouellet	88	17,845	
Comments by Mr. Sims	88	17,873-17,876	
<u>William ROBERTSON</u> , President, CATCA	90	18,416	Toronto
Introduction to CATCA Brief and introduction to video tape produced by BBC (dramatization of events surrounding mid-air collision at Zagreb, Yugoslavia)			Tues. Sept. 23/80
sworn	95	19,611	Cranbrook
Overview of CATCA presentation			Tues. Sept. 30/80
resumed	96	19,658	Cranbrook
Examined by Mr. Sopinka	96	19,689	Wed. Oct. 1/80
Cross-examined by Mr. Capern	96	19,701	

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Stanley ROY, sworn	86	17,579	Wed. Sept. 10/80 Toronto
Air Traffic Controller, Toronto International Airport			
Examination by Mr. Sopinka	86	17,579	
Cross-examination by Mr. Sims	86	17,604	
Cross-examination by Mr. Livingstone	86	17,606-17,610	
Leonard Keith SANDERSON, called	100	20,658	Edmonton Tues. Oct. 7/80
Senior Director, Flying Operations, Air Canada; Captain; Member of Safety Advisory Committee & the Flying Operations Advisory Committee of the International Air Transport Assoc. (IATA) and Chairman of Flight Operations Committee, ATAC. RE: ATAC BRIEF			
Examined by Mr. Nobbs	100	20,658	
Cross-examined by Mr. Garneau	100	20,728	
Cross-examined by Mr. Keenan	100	20,730	
Cross-examined by Mr. Tilroe	100	20,738	
Examined by Mr. Sopinka	100	20,746	
Re-examined by Mr. Nobbs	100	20,767	
Barry Alexander SAUNDERS, recalled	92	18,818	Toronto Thurs. Sept. 25/80
Air Traffic Controller, Kenora (RE: KENORA RADAR). (Previously sworn in Thunder Bay, Volume 66, page 13,740, June 27/80)			
Examined by Mr. Sopinka	92	18,819	
Examined by Mr. Robertson	92	18,836	
Cross-examined by Mr. Fiorita	92	18,837	
Cross-examined by Mr. Myers	92	18,839	
Dr. Robert Richard SHAW, sworn	92	18,947	Toronto Thurs. Sept. 25/80
Assistant Director General-Technical, International Air Transport Association (IATA)			
Examined by Mr. Fleming	92	18,947	
Cross-examined by Mr. Robertson	92	18,962	
Larry SMITH (with Syd BUCKLEY), sworn	88	17,949	Fri. Sept. 12/80 Toronto
Flight Service Station Manager, Stephenville, New Brunswick (RE: PSA BRIEF, Section beginning page 1, "Flight Service Specialists") - SEE Syd BUCKLEY			

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Douglas Charles SNYDER, sworn	90	18,561	Toronto
Acting Unit Chief, St. Catharines Control Tower			Tues. Sept. 23/80
Examined by Mr. Sopinka	90	18,561	
Questioned by the Commissioner & Mr.			
Sopinka .	90	18,567	
recalled	91	18,590	Toronto
Further examination by Mr. Sopinka	91	18,590	Wed. Sept. 24/80
Comments by Mr. Garneau	91	18,592	
Leslie William (Bill) SWANSTON, sworn	85	17,125	Tues. Sept. 9/80
Chief of Aeronautical Development Planning,			Toronto
Aeronautical Policy Planning Programming &			
Development Branch, Civil Aeronautics Directorate, DOT			
Examination by Mr. Sopinka	85	17,125-17,152	
(John) Michael TONNER, sworn	95	19,476	Cranbrook
DATA Systems Coordinator, Gander			Tues. Sept. 30/80
(In respect to CATCA Brief, Exhibit IV-21, re			
Gander Automated Air Traffic System and the new			
JETS System)			
Examined by Mr. Robertson	95	19,476	
Cross-examined by Mr. Capern	95	19,550	
Cross-examined by Capt. McBride	95	19,555	
Examined by Mr. Sopinka	95	19,559	
Mervin Wilson UTAS, sworn	114	23,822	Tues. Nov. 4/80
Air Carriers Inspection, DOT			
RE: Exhibit IV-56: Ground Proximity			
Warning System	114	23,825	
Examination by Mr. Fiorita	114	23,822	
recalled	115	23,953	Wed. Nov. 5/80
Cross Examination by Mr. Keenan	115	23,953	

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Anton VAN WOUW, sworn	94	19,290	Cranbrook Mon. Sept. 29/80
Project Engineer (Level 3 Engineer) Transport Canada, Pacific Region, Telecommunications and Electronics Division			
Examined by Mr. Sopinka	94	19,290	
Max VERMIJ, sworn (with David MERRITT)	103	21,349	Toronto Mon. Oct. 20/80
Electrical Mechanical Engineering Specialist, Aviation Safety Engineering, Aviation Safety Bureau, DOT - SEE David MERRITT			
Richard VIGEANT, sworn (with G. LABONTE) ..	90	18,425	Toronto Tues. Sept. 23/80
Contrôleur, Dorval Tower, Montreal (Part of CATCA presentation)			
Interrogé par Me Ouellet	90	18,425	
George WAKELIN, sworn	93	19,144	Toronto Fri. Sept. 26/80
Technician (Communications) (re Toronto International Airport recommenda- tions to improve radar performance)			
Examined by Mr. Fleming	93	19,144	
Cross-examined by Mr. Fiorita	93	19,163	
Cross-examined by Mr. Myers	93	19,165	
Cross-examined by Mr. Capern	93	19,170	
Further cross-examination by Mr. Myers ..	93	19,174	
Donald MacDonald WALLACE, sworn	88	17,877	Fri. Sept. 12/80 Toronto
Director of Air & Marine Services, Ontario Northland Transportation Commission			
Examination by Mr. Fleming	88	17,878	
Cross-examination by Mr. Sims	88	17,922	
Cross-examination by Mr. Livingston	88	17,941	
Cross-examination by Mr. Garneau	88	17,943	
Cross-examination by Mr. Capern	88	17,945	
Cross-examination by Capt. McBride	88	17,946-17,949	

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Edwin WARRICK, sworn	115	24,019	Wed. Nov. 5/80
Director of Airport Facilities Branch, DOT, Ottawa			
RE: Exhibit IV-59: Document entitled "Emergency Back-Up Power for AIS Systems"	115	24,019	
Examination by Mr. Sims	115	24,020	
RE: Exhibit IV-9: "Failure at Toronto Inter- national Airport, July 28, 1980".....	115	24,033	
Cross Examination by Mr. Dooling	115	24,069	
RE: Exhibit IV-14: "Public Service Alliance of Canada (PSAC) re Navi- gational Aids".....	115	24,069	
Cross Examination by Mr. Tilroe	115	24,072	
Examination by Mr. Sopinka	115	24,077	
Comments by Mr. Sims	115	24,091	
<hr/>			
Bert WEEKS, introduced (with G. MacDONALD) Mayor, City of Windsor	91	18,596	Toronto Wed. Sept. 24/80
Presentation of Brief, City of Windsor ...	91	18,596-18,608	

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	Fri., October 3, 1980	Volume 98
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	Thurs., October 9, 1980	Volume 102
TORONTO:	Wed., October 22, 1980	Part of Volume 105
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Frank Chrysler BLACK, sworn	98	20,260	Cranbrook Fri. Oct. 3/80
Chief of Aeronautical Licensing Division Licensing & Inspection Branch, DOT			
Examined by Mr. Sims	98	20,260	
Examined by Mr. Sopinka	98	20,339	
Cross-examined by Ms. Swenarchuk	98	20,411	
Cross-examined by Mr. Tilroe	98	20,421	
Re-examined by Mr. Sims	98	20,433	
 Capt. Terry N. CHAMPION, called (with P. MISKELL, G. LISTER & F. DAVIES) - SEE Patrick MISKELL (Capt. Champion previously called, Phase II, Volume 53, Fri. Apr. 25/80) RE: CALPA BRIEF	 102	 21,097	Edmonton Thurs. Oct. 9/80
 Lyle COLEMAN, called (with W.T. TWEED) - SEE W.T. TWEED Chief Pilot, Fixed Wing Division, Trans North Turbo Air, Whitehorse, Yukon RE: Submission by NORTHERN AIR TRANSPORT ASSOCIATION	 101	 21,034	Edmonton Wed. Oct. 8/80
 Capt. Frank DAVIES, called (with P. MISKELL, G. LISTER & T. CHAMPION) - SEE Patrick MISKELL Nordair Pilot. RE: CALPA BRIEF	 102	 21,097	Edmonton Thurs. Oct. 9/80
 H. FREEMAN, called (with Peter McLEISH and David HARRISON) - SEE Peter McLEISH RE: Brief prepared by Liftair International and CFCN Communications Ltd.	 102	 21,206	Edmonton Thurs. Oct. 9/80
 R. A. GARLICK, sworn (with M.P. MOREL) Avionics Mechanic with CP Air - SEE M.P. MOREL	 105	 21,901	Toronto Wed. Oct. 22/80
 David HARRISON, called (with Peter McLEISH and H. FREEMAN) - SEE Peter McLEISH	 102	 21,206	Edmonton Thurs. Oct. 9/80
 Michael G. JEFFRIES, sworn	 97	 20,075	Cranbrook Thurs. Oct. 2/80
Regional Supervisor, Flight Services, DOT Pacific Region			
Examined by Mr. Sopinka	97	20,075	
Cross-examined by Mr. Robertson	97	20,224	
Cross-examined by Ms. Swenarchuk	97	20,246	
Examined by Mr. Cox (Air Traffic Control Assistant) ...	97	20,256	

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Capt. Gregory LISTER, called (with P. MISKELL, F. DAVIES & T. CHAMPION) - SEE Patrick MISKELL CP Pilot; CALPA Safety Representative on the 737 Aircraft in Vancouver. RE: CALPA BRIEF	102	21,097	Edmonton Thurs. Oct. 9/80
Jim. M. LIVINGSTON, called Submission re Uncontrolled Airports (as an individual, as an air traffic controller and an airline passenger)	101	20,992	Edmonton Wed. Oct. 8/80
Examined by Mr. Sopinka	101	21,010	
Douglas Edmond McDONELL, sworn Civil Aviation Inspector, CATA Western Region, Edmonton, Alta.	96	19,733	Cranbrook Wed. Oct. 1/80
Examined by Mr. Sopinka	96	19,733	
recalled	97	19,948	
Examination by Mr. Sopinka continued	97	19,948	Cranbrook Thurs. Oct. 2/80
Cross-examined by Ms. Swenarchuk	97	19,950	
Cross-examined by Mr. Sims	97	19,957	
Cross-examined by Mr. Robertson	97	20,022	
Cross-examined by Mr. Smith (PSAC)	97	20,058	
Cross-examined by Capt. McBride	97	20,061	
Cross-examined by Mr. Matheson (for Town of Cranbrook) ...	97	20,062	
Re-examined by Mr. Sopinka	97	20,069	
Peter McLEISH, called (with D. HARRISON and H. FREEMAN) Marketing Manager, Liftair International RE: Brief prepared by Liftair and CFCN Communications Ltd.	102	21,206	Edmonton Thurs. Oct. 9/80
Examined by Mr. Sopinka	102	21,206	
Patrick MISKELL, called (with G. LISTER, Frank DAVIES & T. CHAMPION) PWA Boeing 737 Pilot. RE: CALPA BRIEF	102	21,097	Edmonton Thurs. Oct. 9/80
Examined by Mr. Keenan ...	102	21,097	
Cross-examined by Mr. Matheson	102	21,194	
Examined by Mr. Sopinka	102	21,196	
M.P. MOREL, sworn (with R. A. GARLICK) Non-destructive testing technician, CP Air Vancouver. RE: Submission by CANADIAN AIRWAYS LODGE 764 of INTERNATIONAL ASSOC. OF MACHNISTS & AEROSPACE WORKERS (Exhibit V-13)	105	21,901	Toronto Wed. Oct. 22/80
Examined by Mr. Fleming	105	21,901	
Cross-examined by Mr. Sims	105	21,943	
Cross-examined by Mr. Keenan	105	21,952	

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<u>Robert W.T. O'CONNOR</u> , called	102	21,213	Edmonton Thurs. Oct. 9/80
Partner, Aero Arctic Ltd. Helicopter Services Yellowknife, N.W.T. (Presentation of his brief)			
Examined by Mr. Sopinka	102	21,214	
<u>William ROBERTSON</u> , called	113	23,557	Mon. Nov. 3/80
(Sworn Phase IV, Vol. 95, p. 19,611)			
RE: Exhibit V-14: "Brief on Uncontrolled Airports", submitted by CATCA	113	23,557	
Examination by Mr. Ouellet	113	23,557	
Cross Examination by Mr. Dopling	113	23,583	
Re-Examination by Mr. Ouellet	113	23,589	
<u>Darrel Gordon SMITH</u> , called	96	19,930	Cranbrook Wed. Oct. 1/80
Previously sworn, Phase III-Pacific Region, Vol. 62, Fri. May 30/80, Vancouver)			
Examined by Mr. Sopinka	96	19,930	
<u>Roberta TAYLOR</u> , introduced	98	20,443	Cranbrook Fri. Oct. 3/80
Presentation of brief from Cranbrook-Kimberley Flying Club			
<u>W.T. TWEED</u> , called (with Lyle COLEMAN)	101	21,034	Edmonton Wed. Oct. 8/80
President, Simpson Air; Past President & Chairman of the Board, Northern Air Transport Association RE: Submission by NORTHERN AIR TRANSPORT ASSOCIATION			
Examined by Mr. Sopinka	101	21,034	
Cross-examined by Ms. Swenarchuk	101	21,090	
Cross-examined by Mr. Tilroe	101	21,091	

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PHASE VI - PERSONNEL

PHASE VI - PERSONNEL
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Monday, October 27, 1980 to Friday, October 31, 1980	108 to 112
Monday, November 3, 1980 to Wednesday, November 5, 1980	113 to 115
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NOTE: All exhibits tabled during the above time periods deal with Phase IV - Navigational Aids; Phase V - Uncontrolled Airports, and Phase VI - Personnel.

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Dr. Ian, ANDERSON.....	108	22,537	Mon. Oct. 27/80
Director of Civil Aviation Medicine (CAM), Medical Services Branch, Health and Welfare Canada (Sworn in Phase II, Vol. 41, p. 8091)			
RE: Exhibit VI-17, "Brief of I.H. Anderson on the Medical Aspects of Personnel Licensing".....	108	22,538	
Examination by Mr. Sopinka	108	22,537	
Comments by Capt. D. McBride	108	22,549	
Cross Examination by Mr. Sims	108	22,575	
Cross Examination by Mr. Keenan	108	22,587	
 Pierre ARPIN, recalled	115	23,970	Wed. Nov. 5/80
Director General, Civil Aeronautics, Transport Canada. (Sworn Phase III, Vol. 66, p. 13,256)			
RE: Exhibit IV-57, Document containing information on St. Catherines VHF/DF, Flight Service Station Contingency Plan, Runway Visual Range - Vancouver, No Alternate Fuel.	115	23,969	
Exhibit IV-58, Document regarding Enforcement Study of Cranbrook and Watson Lake and Response to the Ontario North-land Transportation Commission brief.....	115	23,970	Wed. Nov. 5/80
Examination by Mr. Fiorita	115	23,971	
Questions by Ms. Swenarchuk	115	23,992	
Cross Examination by Mr. Dooling	115	23,993	
Cross Examination by Mr. Tilroe	115	23,995	
Cross Examination by Mr. Keenan	115	24,002	
Examination by Mr. Sopinka	115	24,005	
 James S. BARRABLE, sworn	108	22,631	Mon. Oct. 27/80
Superintendent Inspector/Engineer Training, DOT			
RE: Exhibit VI-18, DOT Brief entitled "Civil Aeronautics National Training Development Program for Civil Aviation Inspectors, Airworthiness Inspectors, Airworthiness Engineers.	108	22,632	
Exhibit VI-18A, "Study Section I of Exhibit VI-18	108	22,632	
Exhibit VI-18B, "Study Section II of Exhibit VI-18	108	22,632	
Examination by Mr. Ouellet	108	22,632	
recalled	109	22,684	Tues. Oct.28/80
Cross Examination by Mr. Sims	109	22,684	

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Danny, BAZ, sworn (with M. Smith, G. Weiss, F. Holmes)	108	22,452	Mon. Oct. 27/80
Aircraft Technician, Canadian Air Line Aircraft Technicians Association			
RE: Exhibit VI-16, 3 page document entitled, "Extracts of log books provided by the Canadian Air Line Aircraft Technicians Association on Certification of Airworthiness of Aircraft"	108	22,517	
Examination by Mr. Sopinka	108	22,455	
Cross Examination by Mr. Nobbs	108	22,517	
Cross Examination by Mr. Keenan	108	22,531	
 John BELCHER, recalled	114	23,622	Tues. Nov. 4/80
Director, Telecommunications & Electronics Branch, (Air) DOT, Ottawa (Sworn Phase IV, Vol. 91, p. 18,748)			
RE: Exhibit IV-49: Use of the Phonetic Alphabet in Air/Ground Communications"	114	23,642	
Exhibit IV-50: Brief on Calgary Traffic Watch	114	23,651	
Exhibit IV-50A: CATCA's Comments on Calgary Traffic Watch	114	23,651	
Exhibit IV-51: Terminal Radar Service Area (TRSA)	114	23,659	
Exhibit IV-52: Canadian Air Traffic Services Radar Systems	114	23,698	
Exhibit IV-53: Interference to Radio Aids.	114	23,741	
Exhibit IV-54: No. 17, The Canadian Flight Service Station (Aeradio Station)	114	23,742	
Exhibit IV-55: Maintenance of Electronic Equipment	114	23,745	
 Examination by Mr. Fiorita	114	23,623	Tues. Nov. 4/80
Cross Examination by Mr. Dooling	114	23,754	
Cross Examination by Mr. Schneiderman ..	114	23,758	
Examination by Mr. Sopinka	114	23,761	
 recalled	115	23,857	Wed. Nov. 5/80
(Joins Mr. P. Proulx)			
Examination by Mr. Sopinka (continued)..	115	23,857	

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<u>Jacques RFRNIER</u> , sworn (with Tom DOOLING et al) ...	106	22,023	Thurs. Oct. 23/80
Firefighter, Quebec City Airport - <u>SEE T. DOOLING</u>			
recalled (with T. DOOLING et al) .	107B	22,325	Fri. Oct. 24/80
- <u>SEE T. DOOLING</u>			
<u>William A. BORN</u> , sworn	106	21,997	Thurs. Oct. 23/80
DOT Civil Aviation Airworthiness Inspector, Dorval			
Airport (manufacture, repair & overhaul section)			
Examined by Mr. Fleming	106	21,997	
<u>Robert James BUCKLES</u> , sworn	111	23,190	Thurs. Oct. 30/80
Aeronautical Licensing and Inspection Branch, DOT			
Examination by Ms. Swenarchuk	111	23,190	
Questions by Mr. Sims	111	23,239	
Cross Examination by Mr. McLeish	111	23,242	
Examination by Mr. Ouellet	111	23,250	
<u>Norm BUCKLEY</u> , sworn (with Tom DOOLING et al)	106	22,023	Thurs. Oct. 23/80
Firefighter, Toronto International Airport			
- <u>SEE T. DOOLING</u>			
recalled (with T. DOOLING et al)	107B	22,325	Fri. Oct. 24/80
- <u>SEE T. DOOLING</u>			
<u>George CAPERN</u> , called	112	23,260	Fri. Oct. 31/80
Vice-President of Operations, Air Transport			
Association of Canada (ATAC)			
RE: Exhibit VI-24, Brief of Air Transport Assoc.			
of Canada	112	23,282	
Examination by Mr. Nobbs	112	23,261	
<u>Herbert CUNNINGHAM</u> , recalled	109	22,833	Tues. Oct. 28/80
A Director of Canadian Owners and Pilots			
Association			
(Introduced Phase II, Vol. 51, p. 10,155)			
RE: Exhibit VI-21, Brief of COPA, "Comments in			
regard to Personnel", dated Oct. 22nd, 1980...	109	22,833	
Examination by Mr. Fleming	109	22,834	
Cross Examination by Mr. Dooling	109	22,867	
Cross Examination by Mr. Sims	109	22,870	
Cross Examination by Mr. Tilroe	109	22,874	

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<u>Edward D'ARCY</u> , called (Joins Mr. Capern)	112	23,417	Fri. Oct. 31/80
Senior Manager In-flight Service Base, Montreal and Flight Service Director, Purser or Flight Attendant on all aircraft for Air Canada			
RE: Exhibit VI-24B "Cabin Attendant Training Programs"	112	23,422	
Examination by Mr. Nobbs	112	23,417	
Comments by B. Dunn	112	23,440	
Questions by Mr. Sims	112	23,456	
Comments by Mr. McLeish	112	23,457	
 <u>Jack DODDS</u> , Sworn	109	22,715	Tues. Oct. 28/80
Former Flying instructor, Erin Soaring Society, N.S.			
RE: Exhibit VI-19 "Series of documents concerning Testimony of Jack Dodds"	109	22,716	
Examination by Mr. Ouellet	109	22,715	
Cross Examination by Mr. Fiorita	109	22,746	
 <u>Robert L. DODDS</u> , called	110	22,950	Wed. Oct. 29/80
Chairman of the IFALPA Medical Study Group, Member of the Aerospace Medical Association and the Canadian Society of Aviation Medicine			
Examination by Mr. Keenan	110	22,950	
Examination by Mr. Sopinka	110	22,972	
 <u>Tim DOOLING</u> , sworn (with Wm. FREIFELD, R. FURNISS, N. BUCKLEY & J. BERNIER)	106	22,023	Thurs. Oct. 23/80
Research Officer, Union of Canadian Transport Employees, Public Service Alliance of Canada (PSAC)			
Examined by Mr. Sopinka	106	22,023	
Cross-examined by Mr. Wilcox (PSAC)	106	22,153	
recalled (with Wm. FREIFELD, N. BUCKLEY, J. BERNIER)	107B	22,325	Fri. Oct. 24/80
Cross-examined by Mr. Sims	107B	22,325	
Cross-examined by Mr. Tilroe	107B	22,348	
Cross-examined by Mr. Keenan	107B	22,351	
Cross-examined by Mr. Nobbs	107B	22,355	
Re-examined by Mr. Sopinka	107B	22,366	

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Barbara DUNN, recalled..... National Safety Chairperson for Canadian Airline Flight Attendants Association. (Sworn in Phase II, Vol. 46, p. 9080)	109	22,777	Tues.Oct. 28/80
RE: Exhibit VI-20, Brief of the Canadian Air Line Flight Attendants Association on "The Need for Licensing of Flight Attendants".....	109	22,777	
Examination by Mr. Ouellet	109	22,777	
Cross Examination by Mr. Dooling	109	22,812	
Cross Examination by Mr. Fiorita	109	22,818	
Cross Examination by Mr. Nobbs	109	22,823	
 William FREIFELD, sworn (with Tom DOOLING et al) ..	106	22,023	Thurs. Oct. 23/80
Fire Officer, Toronto International Airport - <u>SEE T. DOOLING</u>			
recalled (with T. DOOLING et al)	107B	22,325	Fri. Oct. 24/80
- <u>SEE T. DOOLING</u>			
 Robert FURNISS, sworn (with Tom DOOLING et al)	106	22,023	Thurs. Oct. 23/80
Former Fire Chief, Dryden Airport; since Aug./80, Chief of Fire Prevention & Security, Upper Canada Village, Morrisburg, Ont. - <u>SEE T. DOOLING</u>			
 Ross A. GARLICK, sworn (with M.P. MOREL)	105	21,901	Wed. Oct. 22/80
- <u>SEE LIST OF WITNESSES - PHASE V - M.P. MOREL</u>			
 Leonard Jack HARKER, sworn	104	21,499	Tues. Oct. 21/80
Superintendent, Flight Training & Examination Section, Aeronautical & Licensing Division, DOT (Reference: Exhibit III-3)			
Examined by Mr. Sopinka	104	21,499	
Cross-examined by Mr. Nobbs	104	21,618	
Cross-examined by Mr. Keenan	104	21,621	
Questioned by the Commissioner	104	21,624	
Further examination by Mr. Sopinka	104	21,626	

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<u>Freeman HOLMES</u> , sworn (with M. Smith, D. Baz and G. Weiss).....	108	22,452	Mon. Oct. 27/80
Aircraft Technician, Canadian Air Line Aircraft Technicians Association			
RE: Exhibit VI-16, 3 page document entitled "Extracts of log books provided by the Canadian Air Line Aircraft Technicians Association on Certification of Airworthiness of Aircraft"	108	22,517	
Examination by Mr. Sopinka	108	22,453	
Cross Examination by Mr. Nobbs	108	22,517	
Cross Examination by Mr. Keenan	108	22,531	
<u>Ed JENSEN</u> , recalled	110	23,002	Wed. Oct. 29/80
Chairman, Air Safety Committee, Air Operations Group			
RE: Exhibit VI-23, "Brief submitted by the Air Operations Group : Personnel Phase, dated October 29th, 1980"	110	23,003	
(Sworn in Phase I, Vol. 15, p. 2501)			
Examination by Ms. Swenarchuk	110	23,002	
recalled	111	23,116	Thurs.Oct.30/80
RE: Exhibit VI-23A, "Aircraft Operations Group Recommendations re Implementation of the Bureau of Consulting Study: Occupational Study of the Aircraft Operations Group	111	entered off the record	
Examination by Ms. Swenarchuk (con't.)	111	23,116	Thurs.Oct.30/80
Cross Examination by Mr. Dooling	111	23,135	
Cross Examination by Mr. Sims	111	23,139	
Cross Examination by Mr. Verrecchia	111	23,172	
Cross Examination by Mr. Sopinka	111	23,174	
<u>Harry KENT</u> , called	110	22,983	Wed. Oct. 29/80
Headquarters Chairman of the Pilots Advisory Committee for Canadian Air Line Pilots Association (CALPA)			
Examination by Mr. Keenan	110	22,984	
Comments by Mr. Tilroe	110	22,999	

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Thomas G. KILPATRICK, sworn	105	21,847	Wed. Oct. 22/80
CP Air Dispatcher, Vancouver (RE: Brief of Flight Dispatch Members of the Brotherhood of Railway and Airline Clerks, System Board 435)			
Examined by Mr. Sopinka	105	21,848	
Comments by Mr. Sims	105	21,861	
Cross-examined by Mr. Verrecchia (CALDA)	105	21,863	
Cross-examined by Mr. Tilroe	105	21,865	
Cross-examined by Mr. Nobbs	105	21,867	
Comments by Mr. Sopinka/The Commissioner/Mr. Sims and Mr. Nobbs	105	21,871	
 Ian LAMBERTON, called	112	23,400	Fri. Oct. 31/80
(Joins Mr. Capern) Manager Customer Service Training, Pacific Western Airlines (PWA), and Vice Chairman of the ATAC Sub- Committee on Harzardous Cargo			
RE: Exhibit VI-24A, "Air Transport Association of Canada Restricted Articles Training Program"..	112	23,409	
Examination by Mr. Nobbs	112	23,401	
 Donald Earl LAMONT, recalled	104	21,627	Tues. Oct. 21/80
Director, Aeronautical & Licensing Inspection (Sworn in Phase I, Vol. 11, p. 1,798)			
Examined by Mr. Sopinka	104	21,627	
Cross-examined by Mr. Verrecchia	104	21,682	
 J. LOWRY, called	108	22,607	Mon. Oct. 27/80
Owner and operator of a company providing consulting and representational services, Ottawa Recent employee of the Bureau of Management Con- sulting, Department of Supply and Services.			
RE: Exhibit III-34, "Lowrie (sic) Report, - CATA - An Occupational Study of the Aircraft Operations Group	64	12,965	Wed. June 25/80
Examination by Mr. Sopinka	108	22,607	Mon. Oct. 27/80
Comments by Ms. Swenarchuk	108	22,630	

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Andrew Donald McCONACHIE, called Representative for Canadian Air Line Pilots Association (CALPA) on the IFALPA Personnel Licensing and Training Committee	110	22,880	Wed. Oct. 29/80
RE: Exhibit VI-22, "Brief of Canadian Air Line Pilots Association"	110	Entered off the record.	
Examination by Mr. Keenan	110	22,880	
Cross Examination by Mr. Dooling	110	22,928	
Cross Examination by Mr. Sims	110	22,929	
Cross Examination by Mr. Verrecchia	110	22,931	
Cross Examination by Mr. Tilroe	110	22,934	
Examination by Mr. Sopinka	110	22,935	
Cross Examination by Mr. Keenan	110	22,949	
Walter McLEISH, called Administrator, CATA	105	21,955	Wed. Oct. 22/80
Comments re Exhibit VI-4, Canadian Air Line Dispatchers Assoc. (CALDA), Appendices F, G & H			
Walter McLEISH, recalled Administrator, CATA (Sworn Phase I, Vol. 2, p. 85)	116	24,199	Tues. Nov. 11/80
RE: Exhibit VI-28: Memorandum ROPS Arrays	116	24,250	Tues. Nov. 11/80
Exhibit VI-29: The Organization of the Canadian Air Transportation Administration (CATA)	116	24,255	Tues. Nov. 11/80
Exhibit VI-23B: CAIP Progress To Date, (Document to be included with exhibit VI-23A)	116	24,283	Tues. Nov. 11/80
Exhibit IV-58A: Concept Paper No. 14	116	24,285	Tues. Nov. 11/80
Exhibit VI-30: Human Resources Requirements in Civil Aeronautics From 1980 to 1986	116	24,286	Tues. Nov. 11/80
Examination by Mr. Sims	116	24,199	Tues. Nov. 11/80
Cross Examination by Mr. Dooling	116	24,291	" "
Cross Examination by Mr. Livingston	116	24,293	" "
Examination by Mr. Sopinka	116	24,307	" "
Captain George MILLS, called (Joins Mr. Capern) Director of Flight Operations Training for Air Canada	112	23,342	Fri. Oct. 31/80
Examination by Mr. Nobbs	112	23,342	

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<u>Henry L. MOORE</u> , sworn	105	21,721	Wed. Oct. 22/80
Superintendent of Radio Operations, Flight Service Stations, Telecommunications & Electronics Branch, DOT, Ottawa			
Examined by Me Ouellet	105	21,722	
Cross-examined by Mr. Wilcox (PSAC)	105	21,766	
Cr-examined by Mr. Fiorita	105	21,772	
 <u>Maurice P. MOREL</u> , sworn (with R.A. GARLICK)	105	21,901	Wed. Oct. 22/80
- <u>SEE LIST OF WITNESSES - PHASE V</u>			
 <u>Archie NOVAKOWSKI</u> , sworn	104	21,693	Tues. Oct. 21/80
Chief of Training, Human Resource Development Div., Air Traffic Services (ATS) Branch, DOT			
Examined by Me Ouellet	104	21,693	
Cross-examined by Mr. Sims	104	21,715	
Cross-examined by Mr. Tilroe	104	21,717	
Re-examined by Me Ouellet	104	21,719	
 <u>Pierre PROULX</u> , recalled	114	23,622	Tues. Nov. 4/80
Director, Air Traffic Services, DOT, Ottawa (Sworn Phase II, Vol. 40, p. 7756)			
RE: Exhibit IV-49: Use of the Phonetic Alphabet in Air/Ground Communication....	114	23,642	
Exhibit IV-50: Brief on Calgary Traffic Watch	114	23,651	
Exhibit IV-50A: CATCA's Comments on Calgary Traffic Watch	114	23,651	
Exhibit IV-51: Terminal Radar Service Area (TRSA)	114	23,659	
Exhibit IV-52: Canadian Air Traffic Services Radar Systems	114	23,698	
Exhibit IV-53: Interference to Radio Aids	114	23,741	
Exhibit IV-54: No. 17, The Canadian Flight Service Station (Aeradio Station)	114	23,742	
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Cross Examination by Mr. Schneiderman	114	23,758	
Examination by Mr. Sopinka	114	23,761	
recalled	115	23,857	Wed. Nov. 5/80
(Joins Mr. Belcher)			
Examination by Mr. Sopinka (continued)...	115	23,857	
<u>Paul A. RIVERS, called</u>	107B	22,422	Fri. Oct. 24/80
<u>Personnel Licensing Officer, Ontario Region</u>			
Examined by Mr. Fleming	107B	22,422	
<u>W. J. ROBERTSON, called</u>	113	23,557	Mon. Nov. 3/80
<u>President of Canadian Air Traffic Controllers</u>			
<u>Association (CATCA)</u>			
(Sworn Phase IV, Vol. 95, p. 19,611)			
RE: Exhibit V-14: Brief on Uncontrolled			
Airports, submitted by CATCA	113	23,557	
Examination by Mr. Ouellet	113	23,557	Mon. Nov. 3/80
Cross Examination by Mr. Dooling	113	23,583	
Re-Examination by Mr. Ouellet	113	23,589	
called	113	23,593	
RE: Exhibit VI-26: Brief in Respect of			
Personnel, submitted by CATCA	113	23,593	Mon. Nov. 3/80
Re-Examination by Mr. Ouellet	113	23,593	
Cross Examination by Capt. McBride	113	23,613	
Further Examination by Mr. Ouellet	113	23,615	
<u>Marina Mary ROBILLARD, sworn</u>	116	24,100	Tues. Nov. 11/80
<u>Director of Airport Services and Security,</u>			
<u>Ottawa</u>			
RE: Exhibit VI-27: Commission of Inquiry on			
Aviation Standards, Airport Emergency			
Services	116	24,103	Tues. Nov. 11/80
Examination by Mr. Sims	116	24,101	Tues. Nov. 11/80
Cross Examination by Mr. Dooling	116	24,132	" "
Cross Examination by Mr. Keenan	116	24,172	" "
Examination by Mr. Sopinka	116	24,181	" "

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<u>R. SCHNEIDERMAN</u> , called (with M. VERRECCHIA) - <u>SEE M. VERRECCHIA</u>	105	21,775	Wed. Oct. 22/80
<u>Donald Ross SINCLAIR</u> , sworn Regional Superintendent of Air Carrier Operations for the Ontario Region.	109	22,759	Tues. Oct. 28/80
Examination by Mr. Ouellet	109	22,759	
<u>Murray SMITH</u> , sworn (with G. Weiss, D. Baz and F. Holmes) Vice President of Canadian Air Line Aircraft Technicians Association	108	22,452	Mon. Oct. 27/80
RE: Exhibit VI-16, three page document entitled, "Extracts of log books provided by the Canadian Air Line Aircraft Technicians Association on Certification of Airworthiness of Aircraft" ..	108	22,517	
Examination by Mr. Sopinka	108	22,452	
Cross Examination by Mr. Nobbs	108	22,517	
Cross Examination by Mr. Keenan	108	22,531	
<u>Ross SMYTH</u> , sworn Part-time Flying Instructor, Class III (private pilots)	106	21,960	Thurs. Oct. 23/80
Examined by Me Ouellet	106	21,960	
Comments by Mr. Fiorita	106	21,989	
Cross-examined by Mr. Nobbs	106	21,990	
Questioned by the Commissioner	106	21,994	
Comments by Me Ouellet	106	21,996	
<u>Russell TRENHOLM</u> , called (Joins Mr. Capern) Manager of Technical Systems, Air Canada	112	23,376	Fri. Oct. 31/80
Examination by Mr. Nobbs	112	23,376	
<u>Mervin Wilson UTAS</u> , sworn Air Carriers Inspection, DOT	114	23,822	Tues. Nov. 4/80
RE: Exhibit IV-56: Ground Proximity Warning System	114	23,825	
Examination by Mr. Fiorita	114	23,822	
recalled	115	23,953	Wed. Nov. 5/80
Cross Examination by Mr. Keenan	115	23,953	

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<u>M. VERRECCHIA</u> , called (with R. SCHNEIDERMAN)	105	21,775	Wed. Oct. 22/80
Submission by Canadian Air Line Dispatchers Assoc. (CALDA)			
Examined by Mr. Sopinka	105	21,776	
Cross-examined by Mr. Dooling (PSAC)	105	21,811	
Comments by Mr. Sims	105	21,815	
Cross-examined by Mr. Tilroe	105	21,816	
Cross-examined by Mr. Nobbs	105	21,818	
Cross-examined by Mr. Keenan	105	21,829	
Cross-examined by Mr. Sims	105	21,831	
Re-examined by Mr. Sopinka	105	21,836	
 <u>Edwin WARRICK</u> , sworn	115	24,019	Wed. Nov. 5/80
Director of Airport Facilities Branch, DOT, Ottawa			
RE: Exhibit IV-59: Document entitled "Emergency Back-Up Power for ATS Systems"	115	24,019	
Examination by Mr. Sims	115	24,020	
RE: Exhibit IV-9: Failure at Toronto Inter- national Airport, July 28, 1980	115	24,033	
Cross Examination by Mr. Dooling	115	24,069	
RE: Exhibit IV-14: Public Service Alliance of Canada (PSAC) re Navigational Aids	115	24,069	
Cross Examination by Mr. Tilroe	115	24,072	
Examination by Mr. Sopinka	115	24,077	
Comments by Mr. Sims	115	24,091	
 <u>George WEISS</u> , sworn (with M. Smith, D. Baz and F. Holmes)	108	22,452	Mon. Oct. 27/80
Aircraft Technician, Canadian Air Line Aircraft Technicians Association			
RE: Exhibit VI-16, three page document entitled: "Extracts of log books provided by the Canadian Air Line Aircraft Technicians Association on Certification of Airworthiness of Aircraft"....	108	22,517	
Examination by Mr. Sopinka	108	22,454	
Cross Examination by Mr. Nobbs	108	22,517	
Cross Examination by Mr. Keenan	108	22,531	
 <u>Robert WHITMORE</u> , sworn	105	21,880	Wed. Oct. 22/80
Personnel Administrator, Transport Canada (Regional Personnel Staffing & Development Officer, Pacific Region)			
Examined by Mr. Sopinka	105	21,880	
Cross-examined by Mr. Wilcox	105	21,894	
Cross-examined by Mr. Fiorita	105	21,897	

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Peggy WILSON, sworn	107B	22,380	Fri. Oct. 24/80
Civil Aviation Inspector for Flight Training Standards, Ontario Region			
Examined by Me Ouellet	107B	22,380	
Cross-examined by Mr. Fiorita	107B	22,411	
Cross-examined by Mr. Tilroe	107B	22,414	
Cross-examined by Mr. Nobbs	107B	22,417	
Re-examined by Me Ouellet	107B	22,421	
Gerald Sanford WOLFE, called.....	112	23,282	Fri. Oct. 31/80
(Joins Mr. Capern)			
Manager, Maintenance Technical Training, In charge of all technical training at Air Canada			
Examination by Mr. Nobbs	112	23,282	
MESSRS. WOLFE, MILLS, TRENHOLM, LAMBTON and D'ARCY join MR. CAPERN as a Panel	112	23,463	Fri. Oct. 31/8
Cross Examination by Mr. Verrecchia	112	23,464	
Cross Examination by Mr. Dooling	112	23,488	
Cross Examination by Miss B. Dunn	112	23,500	
Cross Examination by Captain D. McBride	112	23,521	
Examination by Mr. Sopinka	112	23,533	
