Mr. DADDARIO. Thank you, gentlemen. We appreciate your coming and we will be sending you further questions.

(Additional questions and answers for the record may be found in vol. II.

Mr. WAGNER. Thank you very much. We will be glad to assist you in any way that we can.

Mr. DADDARIO. Fine.

(The complete prepared statement of Dr. F. E. Gartrell follows:)

PREPARED STATEMENT OF DR. F. E. GARTRELL, ASSISTANT DIRECTOR, DIVISION OF HEALTH AND SAFETY, TENNESSEE VALLEY AUTHORITY

TVA appreciates the opportunity to participate in the hearings of this Subcommittee since we have a great interest in the subject under study—"The Adequacy of Technology for Pollution Abatement." TVA has long been actively concerned with the control of air and water pollution and in recent years has joined the U. S. Public Health Service in a research and demonstration project for treatment and disposal of municipal solid wastes and sewage sludge. Our statement, however, on the basis of discussion with the Subcommittee staff, will be limited to TVA interests and experience in air pollution control—more specifically, control of air pollution from large coal-fired power plants.

Prior to construction of our Johnsonville Plant in 1949–1953, the only thermal power plants in the TVA system were relatively small plants which did not present any special air pollution problems. However, during the past fifteen years TVA has added 53 coal-fired steam-electric generating units to its power production facilities, ranging in size from 125 megawatts to 950 megawatts. These units are located in nine plants with total rated plant capacities which run from 823 megawatts to 1,978 megawatts. Plant and unit data are presented in Table 1.

TABLE 1.—*Major TVA steamplants*

Name	First unit in operation or scheduled	Unit numbers	Rated capacity		Height of stacks (feet)
			Per unit (megawatts)	Total plant (megawatts)	
Bull Run	1966	1	950.0	950	800
Paradise [1]	1963	1–2	704.0	1,408	600
Gallatin	1956	1–2	300.0	1,255	[2] 500
		3–4	327.6		[2] 500
Colbert	1955	1–3	200.0	1,373	300
		4	223.0		300
		5	550.0		500
John Sevier	1955	1	223.0	823	[2] 350
		2–4	200.0		[2] 350
Kingston	1954	1–4	175.0	1,700	250
		5–9	200.0		300
Shawnee	1953	1	150.0	1,675	250
		2–7	175.0		250
		8	150.0		250
		9	175.0		250
		10	150.0		250
Widows Creek	1952	1–2	140.6	1,978	170
		3	150.0		170
		4	140.6		170
		5–6	140.6		270
		7	575.0		500
		8	550.0		500
Johnsonville	1951	1–4	125.0	1,485	270
		5–6	147.0		270
		7–10	173.0		[2] 400
Watts Bar	1942	1–4	60.0	240	150

[1] Unit 3 under construction, 1,150 megawatts.
[2] 1 stack serves 2 units.

NOTE.—In addition to the above-named steamplants, TVA operates under lease arrangement the Thomas H. Allen plant (three 330-megawatt units with three 400-foot stacks) at Memphis, Tenn.