The original documents are located in Box 1, folder "Aircraft Noise Control" of the John Marsh Files at the Gerald R. Ford Presidential Library.

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Sara

THE WHITE HOUSE

WASHINGTON

September 3, 1976

MEETING WITH SECRETARY COLEMAN ON AIRCRAFT NOISE

Monday, September 6
12:30 p.m. (20 minutes)
The Oval Office

From: Jim Cannon

I. PURPOSE

This meeting was requested by Secretary Coleman to discuss your views on his proposed aviation noise policy prior to his testimony before the House Aviation Subcommittee on Thursday, September 9.

II. BACKGROUND, PARTICIPANTS AND PRESS PLAN

A. Background

Secretary Coleman has submitted a proposed aviation noise policy (Tab A) which has been reviewed by the Domestic Council, OMB and has also undergone an interagency review.

In addition, I have prepared a decision memorandum for your consideration (Tab B) which incorporates the comments of these agencies and your senior staff.

B. Participants

Secretary Coleman Jim Lynn Dick Cheney Jim Cannon



C. Press Plan

To be announced.

III. TALKING POINTS

- 1. Bill, your proposal brings together the issuance of noise standards and efforts to alleviate the financial problems of the airlines and the aircraft manufacturers. Each is a difficult and controverial area. The decision is one with environmental and economic implications. I would be interested in hearing your concept of the appropriate Federal role in each of these areas.
- 2. What brings the issue of the noise regulations to a decision at this time?
- 3. If we take no action now on either aspect of your proposal what would be the effect on the airlines?





THE SECRETARY OF TRANSPORTATION WASHINGTON, D.C. 20590

JUL 2 1976

MEMORANDUM FOR THE PRESIDENT The White House

Subject: Aviation Program

The Administration has a unique opportunity to propose an innovative aviation program managed by the private sector to reduce airport noise, stimulate private financing of new aircraft, increase employment in the depressed aeronautical manufacturing industry, advance aircraft technology, and preserve the American share of the world aircraft market which is now being challenged by the Europeans.

The Department of Transportation submitted to the Office of Management and Budget on June 1 a proposed Aviation Noise Policy Statement. This Noise Policy placed the primary responsibility on the airport proprietors and state and local governments to take action to reduce airport noise by locating airports outside populated areas, by assuring compatible land use and zoning, and by acquiring land around airports. The policy further clarifies the responsibility of the federal government to reduce aircraft noise at its source both by promulgating noise standards for new airplanes and by bringing the 75% of the existing fleet that does not now comply with federal noise standards into compliance within eight years. This policy statement is currently in the process of interagency review. I urge that the statement be approved, with certain refinements.

Bringing the current aircraft fleet into compliance with federal noise standards will require special financing arrangements. The Department of Transportation recommends that airlines be permitted to collect a 2% surcharge on airline tickets for domestic flights for ten years and use these funds primarily as down payments for the replacement of the oldest, noisiest four engine jets in the commercial fleet. 1/ The

^{1/} A 2% surcharge on domestic tickets for a ten year period would raise about \$3 billion, which is almost one-half of the cost of replacing those old noisy four engine airplanes that would remain in the fleet at the end of 1984, the date when full compliance with federal noise standards would be required. If, after further analysis within the Administration, we reach agreement that this objective may be achieved with less financing, then we could reduce the number of years or the surcharge percentage. Several options along these lines are described in the attachments.

carriers, not the federal government, would operate the fund, and they would have maximum flexibility in determining how to use the funds. At the same time the surcharge is imposed, the domestic passenger ticket tax collected for the Airport Trust Fund would be reduced by 2%. Other collections for the Trust Fund would remain the same. The Trust has accumulated a surplus that now exceeds \$1 billion. If the ticket tax continues to be levied at its present rate, the surplus will exceed \$2 billion by 1980, assuming full funding of all current authorizations. Although we would prefer to broaden the uses of the Trust Fund to include maintenance of the air traffic system, Congress has permitted this only to a limited extent. Eventually, the surplus will either become a target for unjustified spending proposals or the tax will be reduced. Of course, the moment the tax is reduced, the airlines probably would apply to the CAB to increase their fares by a like amount, but it is doubtful that the CAB would permit the increase, and if it does, there would be no direction as to how the increase is spent. I believe that this proposal is sound public policy because it prevents an increase in the cost of air travel while dedicating resources to the attainment of important national objectives. It is also my judgment that Congress will accept an Administration proposal to reduce the ticket tax by 2% to 3%.

We recommend further that the Administration seek legislation to authorize the expenditure of an additional \$350 million from the existing Trust Fund surplus to quiet some of the newer two and three engine airplanes. The Congress will then have the opportunity to consider whether the retrofit of the newer airplanes with sound absorbent material provides sufficient noise reduction to be worth the cost. 2/

I would like to highlight for you some of the advantages of this program:

Minimum Federal Involvement: Use of a surcharge collected and managed by the carriers with CAB approval avoids direct and continuing federal involvement in private sector capital investment decisions.

2/ Alternatively, we could include the cost of retrofitting these two and three engine planes in the CAB-approved fund that would be used for aircraft replacement and avoid the need to seek specific legislation to authorize the expenditure of trust funds.



- . The financial burden will be placed on airline users rather than on the general public.
- . A surcharge avoids use of general federal revenues.
- . The airlines collect the surcharge, determine the distribution formula, and decide whether they prefer to replace or retrofit airplanes.

New Technology: Stimulating private financing for aircraft replacement will provide the estimated \$1 billion needed for Boeing to develop the 7X7 and \$500-\$800 million for McDonnell-Douglas to build to DCX200. A new generation of U.S. manufactured airplanes is presently stalled at the design stage because U.S. air carriers have not been able to finance new airplanes.

Employment: Aircraft replacement will generate jobs in the aerospace and related industries.

- An accelerated replacement program by the airlines that generates about \$12 billion dollars in aircraft sales, including sales abroad, would create over 240,000 jobs in the aerospace and related industries.
- . Aircraft orders could reverse the heavy unemployment of the scientists and engineers in the commercial jet manufacturing industry.
- . Immediate aircraft replacement would prevent a major shift of jobs to European countries whose manufacturers have captured a larger share of the aircraft market.

Exports: Accelerated production of these airplanes will help American manufacturers remain competitive in the world market.

- Aerospace products have been, in recent years, an important export of the United States, equaling 7% of the total in 1974. Twenty-seven percent of 1974 U.S. aerospace sales in 1974 were exported.
- European governments are now subsidizing their aerospace industries. (France's 5 year plan for 1971-75 contained a \$220 million annual subsidy for its aerospace industry).

European aerospace manufacturers are beginning to produce aircraft, for example, the Λ-300-B, that will take sales away from U.S. manufacturers if U.S. companies do not produce new aircraft soon.

Energy: Production of a new generation of planes will promote energy conservation by improving fuel efficiency about 30% over the older four engine planes.

Better Air Service: New generation airplanes are more cost efficient to the airlines.

- . New technology airplanes will be more efficient to the carriers than the older aircraft in terms of seats, range and operational characteristics (easier maintenance, increased reliability of systems).
- . Improved air service would be achieved without a significant increase in cost to users since DOT, as part of its proposal, requests a 2% reduction in the ticket tax collected for the Airport Trust Fund.

Noise Reduction: Affirmative federal action to reduce aircraft noise by the early retirement of the noisiest, oldest four engine jets (about 500 B-707s, DC-8s) and the retrofit of some of the newer two and three engine jets (B-727, B-737, DC-9) is necessary.

- . New aircraft containing new noise control technology would reduce by more than two-thirds the land area and number of people presently impacted by noise problems for six million Americans, helping to forestall increasing damage suits against airports.
- . Proliferation of curfews and other airport use restrictions that increasingly threaten to interfere with interstate commerce and disrupt the air traffic system will be deterred.

Air Quality: New airplanes will comply with engine pollution standards to be in effect in 1979.



I believe this proposal offers you an opportunity to address affirmatively a number of serious environmental, energy, transportation, export promotion and employment problems with minimal federal involvement and maximum private sector flexibility. If you approve the concept generally, I hope to work closely with my colleagues in the Cabinet to refine and improve the proposal to enable you to announce it as soon as possible.

William T. Coleman, Jr.

Enclosures:

Preferred financing proposal

Alternative financing proposals

Backup paper on financing aircraft noise reduction



DESIGNATION OF TRANSPORTATION

AVIATION NOISE FINANCING

DOT recommends a financing plan with the following key elements:

1. CAB would be asked to approve, and the Executive Branch would support (perhaps with an expression of Congressional desire), an across the board surcharge for 10 years of 2% on domestic passenger tickets and freight waybills. The airlines would be required to deposit the revenues from the surcharge in an Aircraft Replacement Fund.

Effect:

About \$3 billion (in inflated dollars) would flow into the Aircraft
Replacement Fund over 10 years. This amount would finance approximately
one-half of the cost (roughly \$6.4 billion) of some 200 to 275 of the B-707s
and DC-8s that would otherwise be in airline service at the end of 1884,
when the noise standard applies to those aircraft.*

2. The Aircraft Replacement Fund would be managed by intercarrier agreement under which each carrier would have entitlements to the Fund in proportion to its total system passenger and cargo revenue.

Effect:

Administration of the Fund by the airlines would minimize federal involvement.

3. The federal air passenger ticket and freight waybill taxes would be reduced from 8% to 6%, and from 5% to 3%, respectively.

^{*} The amount of \$3 billion to be collected through the surcharge has been chosen because it is the sum that commercial banks have indicated to the airline industry would be required to induce their participation in financing an early aircraft replacement program. DOT is, however, conducting an analysis to ascertain whether some lesser amount might induce the participation of the financial community. Upon completion of that analysis the recommendation as to the duration of the 2% surcharge will be adjusted to that the collection will yield the amount deemed necessary.

Effect:

The lower user taxes flowing into the Airport and Airway Trust

Fund would cover all outlays chargeable to the Fund under the

ADAP bill. (An amendment would be needed to permit the use of '.'

uncommitted balances (\$1.4 billion) to finance the full annual authorizations included in the ADAP Act.)

Once the pending ADAP bill is enacted without a tax reduction, unused Trust Fund balances would grow rapidly (to \$1.7 billion by 1979) and become a target for tax reductions or unjustified spending proposals.

From a national interest point of view, the use of these excess revenues to help meet environmental and broad economic objectives is a sound and defensible policy alternative.

- 4. Any balances remaining in the Fund after program objectives have been achieved would be deposited in the Airport and Airway Trust Fund and dedicated to noise control purposes (including land acquisitions and easements).
- 5. The cost of retrofitting two and three engine airplanes will be paid from the Airport and Airway Trust Fund.

Effect:

About \$350 million (inflated dollars) will be taken from the Trust Fund for retrofit.

Attachments:

- 1. Effect of Aircraft Replacement Fund on carriers' finances.
- 2. Estimated Aircraft Replacement Fund revenues, 1977-1986.
- 3. (A&B) -- Impact on airport/airway fund of lower tax rates.



Contribution (2% Passenger & Waybill Surcharge- Carrier 10 Years, 1977-1986)	Number of Non-Complying 707's & DC-8's	<u>Total</u> Entitlement	Entitlement less Contribution	
10	16 11 <u>5</u> 32	3 45 <u>24</u> 78	(23.1) 28.6 19.5 25.0	CIBRAP,
er plemental Carriers 48.2 rastate Carriers 125.5 aiian 14.8 ha 11.5 Total Other \$200.0	31 - - - 31	92 42 11 <u>7</u> 152	43.8 (83.5) (3.8) (4.5) (48.0)	
<u>TOTAL</u> \$3327.0	495	3327.0	- 0 -	
er Carriers ² /	17			·
TOTAL	, 523 ·			•

includes commercial operators and flying clubs. Revenue contribution and entitlements for these carriers are not provided due to lack of revenue data.



Attachment 2

REVENUE COLLECTIONS - AIRCRAFT REPLACEMENT FUND

					•				Ten		
	1977	. 1978	1979 .	<u>089</u> r	1987	1982	1983	1984	1985	1986	Year Total
CRAFT REPLACEMENT FUND								•			
Ticket Surcharge	224	244	258	271	284	303	322	341	360	377	2484
Waybill Surcharge	22	<u>25</u> .	_28	32	36	_38	38	40	<u>40</u>	42	342
Total	246	270	206	303	320	347	360	381	<u>400</u>	419	3327

CASE A. EXISTING TAX STRUCTURE, LATEST CONFERSE COMPROMISE ON ADAP & MAINTENANCE

(In \$ Millions)

							0	
	1976	<u>10</u>	1977	1978	1979	1980	1981	
Beginning Uncommitted Balance	889	1269	1378	1520	1693	1892	2105	3/
lus Trust Fund Revenues	969	254	1046	1128	1205	1268	<u>1338</u> ·	
Subtotal	1858	1523 ·	2424	2648	2898	3160	. 3443	
Maintenance FLE READ	250 68 1128	103 - 62 18 1340	525 250 250 77 1322	555 275 250 <u>85</u> 1483	590 300 250 90 1668	625 325 250 <u>95</u> 1865	•	
Subtotal								
lus Estimated Interest *	141	33	198	210	224	240		
nding Uncommitted Balance	1269	1378	7520	1693	1892	2105	•	

Interest for FY 1976 and the transition quarter is as shown in the FY 1977 Budget; interest thereafter is calculated at 8% of average cash balance.

eginning Cash Balance Plus Revenues Less Expenses Ending Cash Balance	2013 239 2252	2393 71 2464	2502 - 55 2446	2644 - 37 2507	2817 - 25 2792	3016 <u>- 27</u> 2989	3229
verage Cash Balance	Accorded over control of the Control		(2474)	(2525)	(2804)	(3002)	
Interest alance Carried Forward	141 2393	<u>38</u> 2502	<u>198</u> 2644	<u>210</u> 2817	<u>224</u> 301 <i>6</i>	<u>240</u> 3229 .	

CASE. B. 6% PASSENGER TICKET TAX, 3% WAYFILL TAX, LATEST CONFEREE COMPROMISE ON ADAP & MAINTENANCE (In \$ Millions)

1976	. <u>TQ</u>	. 1977	1978	1979	1980	1981
889	.1269	1378	1278	1165	1038	884
. <u>969</u>	254	<u>811</u>	874	932	981	1035
1858	1523	27.89	2150	2097	2019	1919
412 250 <u>68</u>	103 - 62 18	525 250 250 77	555 275 250 85	590 300 250 90	625 325 250 <u>95</u>	•
1128	1340	1087	985	867	724	
141	38	<u> 189</u>	<u>180</u>	171	160	
1269	1378	1276	1153	1038	884	
	889 969 1858 412 250 68 1128	889 1269 969 254 1858 1523 412 103 250 62 68 18 1128 1340 141 38	889 1269 1378 969 254 811 1858 1523 2189 412 103 525 250 62 250 68 18 77 1128 1340 1087 141 38 189	889 1269 1378 1276 969 254 811 874 1858 1523 2189 2150 412 103 525 555 250 275 250 275 250 62 250 250 68 18 77 85 1128 1340 1087 985 141 38 189 180	889 1269 1378 1276 1165 969 254 811 874 932 1858 1523 2189 2150 2097 412 103 525 555 590 250 250 275 300 250 62 250 250 250 68 18 77 85 50 1128 1340 1087 985 867 141 38 189 180 171	889 1269 1378 1276 1165 1038 969 254 811 874 932 981 1858 1523 2189 2150 2097 2019 412 103 525 555 590 625 250 250 275 300 325 250 62 250 250 250 250 68 18 77 85 90 95 1128 1340 1087 985 867 724 141 38 189 180 171 160 1250 1370 1876 1876 1876

Interest for FY 1976 and the transition quarter is as shown in the FY 1977 Budget; interest thereafter is calculated at 8% of average cash balance.

eginning Cash Balance Plus Revenues Less Expenses Ending Cash Balance	2013 239 2252	2393 71 2464	2502 -291 2211	2400 -291 2109	2289 <u>-298</u> 1991	2162 -314 1848	2008
verage Cash Balance ·Interest alance Carried Forward	141 2393	<u>38</u> 2502	(2351) 189 2400	(2254) 180 2289	(2140) 171 2162	(2005) 160 2008	

ADTENTIVE TATE ON TORY FOR

AVIATION NOISE FINANCING

The following options might be considered as alternatives to DOT proposal to facilitate replacement and retrofit of aircraft that do not comply with the FAA noise standards:

Option #1

1. CAB would be encouraged through an expression of legislative intent to permit an environmental surcharge of 2% on domestic passenger tickets and freight waybills for 5 years. Revenues from the surcharge would be placed in an escrow fund to be used primarily for replacement of 4 engine aircraft.

Effect:

About \$1.4 billion would be provided for the replacement fund over 5 years.

2. The replacement fund would be managed by the airlines under an inter-carrier agreement.

Effect:

Administration of the replacement fund by the carriers would keep federal involvement to a minimum.

- 3. The replacement fund would be disbursed as follows:
 - - 50% would be distributed in cash to the participating airlines in proportion to the surcharges each contributes to the fund;
 - -- 50% would be used as a loan guarantee fund with the



of its total system revenues. Loan guarantees would be authorized up to three times the amount of each airline's entitlement.

Effect:

About \$1.4 billion in cash would be available to carriers.

Use of a loan guarantee fund enables carriers to obtain financing for new airplanes.

- 4. Any unused balance in the loan guarantee fund after all loans have been paid off will be placed in the Airport and Airways Trust Fund.
- 5. The tax on passenger tickets and freight waybills collected for the Airport and Airways Trust Fund would be reduced by 2% for 5 years.

Effect:

A reduction in the ticket tax to balance the surcharge prevents the cost of air transportation from increasing.

6. Appropriations would be authorized from the Airport and Airways
Trust Fund to pay the cost of retrofitting those non-FAR 36 aircraft
which the airlines elect to retain in domestic service, rather than replace
or retire them.

Effect:

The cost of retrofitting 2/3 engine airplanes is estimated to be about \$350 million (in inflated dollars). If the airlines choose to retrofit the approximately 75 four-engine aircraft which may be economic to retrofit



then the cost would increase by \$225 million.

Option #2

7 years on carriers' domestic passenger tickets and freight waybills.

Revenues from the surcharge would go into a replacement fund.

Effect:

About \$2 billion in revenues, 30% of the approximately \$6.4 billion needed to replace 4 engine airplanes would flow into the replacement fund.

2. The replacement fund, managed by the airlines under an inter-carrier agreement, would be distributed according to the amount each carrier contributes.

Effect:

Administration of the fund by carriers minimizes federal involvement.

Funds could be used for purchase of any type of new aircraft.

There would not be any cross subsidy or pooling of funds.

3. International carriers and the portion of a domestic carrier's airplanes used in international service (determined by the proportion its international revenues bear to total revenues) are exempt from the domestic standard and do not participate in the domestic Aircraft Replacement Fund.



Option #3

1. Require the carriers to submit a plan within 6 months after a noise rule takes effect stating the number of airplanes they intend to retrofit and the number they intend to replace.

Effect:

The FAA, airframe manufacturers, and airlines will know the estimated demand for retrofit kits and new airplanes and can estimate the costs.

- 2. An escrow fund would be created and would receive moneys from two sources:
 - - the \$1.4 billion surplus in the Airport and Airways Trust Fund;
 - - a 1% surcharge approved by the CAB to be levied on domestic passenger tickets and freight waybills.

Effect:

About \$2 billion would be placed in the fund in 5 years. Of this amount, \$1.4 billion would be available immediately to be used for replacement.

The carriers would decide how they would meet the noise requirements.

- 3. Disburse the funds as follows:
- -- Estimate the retrofit costs and set the amount necessary to meet them aside;
- airplanes to be replaced.

Effect:

About one-third of TWA's and almost all of Pan Am's fleet would be exempted. The exempt portion of an American carrier's fleet would come within the international fund (6 below).

- 4. Any balance in the replacement fund at the end of the 7 year period would be placed in the Airport and Airways Trust Fund.
- 5. The tax on passenger tickets and freight waybills collected for the Airport and Airways Trust would be reduced by 2% for 7 years.

Effect:

A reduction in the ticket tax that corresponds to the surcharge will not increase the cost of air transportation.

6. A surcharge on all international tickets and waybills would be collected to facilitate replacement of 4 engine airplanes in international service for both domestic and foreign carriers. A distribution formula would be worked out through ICAO.

Effect:

Separation of domestic and international operations prevents uneven treatment of either domestic or foreign carriers.

7. Appropriations would be authorized from the uncommitted balance
(\$1.4 billion) in Airport and Airways Trust Fund to pay for retrofit of
2/3 engine airplanes.



Effect:

The total cost of retrofit (\$350 million in current dollars) would be covered.

About \$1.6 billion, approximately 25% of the amount needed to replace 4-engine airplanes (roughly \$6.4 billion), would be available for that purpose.



BACKUP PAPER ON FINANCING AIRCRAFT NOISE REDUCTION

I. INTRODUCTION

- . There are four parts to the aircraft noise problem:
 - -- One, an unacceptably high level of noise at major U.S. airports, and the resultant pressure for a responsible Federal Government noise-reduction program.
 - -- Two, the inability of much of the airline industry to obtain conventional financing to undertake a noise reduction program.
 - -- Three, the present unavailability of new-generation air-craft as suitable replacements under the program.
 - -- Four, declining employment in the U.S. aerospace industry, and threatening encroachment of government subsidized foreign competition on the U.S. share of the world aerospace market.

II. DEFINITION OF THE PROBLEM

A. The National Airport Noise Problem

- Aircraft noise has become a serious problem at seven key U.S. airports and a considerable irritation and annoyance at about one hundred more, darogating the quality of life for 6 to 7 million citizens. Pressure from airport operators and consumer groups compel action by the Federal Government in order to avoid:
 - Curfews at major airports, which would interfere with air commerce and disrupt our national air system by delaying mail and cargo, and requiring expensive and difficult repositioning and rescheduling of aircraft.
 - -- Billions of dollars in potential law suits and/or land acquisitions.
 - -- Federal preemption of local restrictions and the resultant Federal liability for claims against local airport operators.
- To correct the noise problem, DOT proposes issuance of a regulation requiring operators of the aircraft not meeting FAR 36 standards to comply with these standards within a 6- to 8-year period, depending on aircraft type, by retiring and replacing them except in the case of newer aircraft for which retrofit makes sense.



- There are 2,148 jet aircraft in the U.S. commercial fleet today. Of these, 77 percent, or 1,654 planes, exceed FAR 36 standards. These consist of approximately 500 1960-vintage.four-engine aircraft, 1,100 more recent two- and three-engine aircraft, and 50 early 747's. Relatively few of the noisy aircraft are found in the fleets of the all-cargo and supplemental carriers. The majority are owned by the trunk carriers; four trunks--American, Pan Am, TWA, and United--account for nearly two-thirds.
- If all 1,654 noisy aircraft were retrofitted, the cost in today's dollars would range from approximately \$870 million to \$1.6 billion:
 - -- \$255 million for the 1,100 two- and three-engine aircraft (at an average cost of over \$200,000 per aircraft).
 - -- From \$600 million to \$1.3 billion for the approximately 500 four-engines (not including the 747's). The cost of these kits--which have not yet been developed--is estimated to range from \$1.2 million to \$4.5 million, depending on certain assumptions, the most important of which is the number of aircraft to be retrofitted. A reasonable estimate, assuming all four-engines were retrofitted, would be from \$1.2 million to \$2.5 million per aircraft. The higher unit cost, as compared to the two- and three-engine retrofit, is a function of the greater difficulty of retrofitting these planes, the larger number of engines, and the smaller numbers of planes involved.
 - -- The 50 747's would cost approximately \$13 million to retrofit.
- Retrofit is conceded to increase operating costs for most narrow-bodied four-engine aircraft, and it is expected the airlines will choose to replace rather than retrofit these aircraft. The kits are expensive and would add nothing to the useful life of the planes. The airlines have indicated it would be economically preferable to replace almost all with a quieter, more efficient aircraft, if one were available, contingent upon obtaining the necessary financing.
- Not all the four-engine aircraft in the fleet today will be in the fleet at the end of 1984. But not all will have been retired either. Between now and then, it is expected that the airlines will purchase on the order of 700 additional aircraft* to meet

^{*} Projecting the composition of individual carrier fleets and the total U.S. fleet 8 years into the future is a difficult, complicated exercise, requiring considerable amounts of judgment as to carrier decisions, as well as quantitative data. The figures included in this paper are preliminary and may be revised; however, the relationships and the ranges are firmly established and can be used with reasonable confidence.

anticipated traffic growth and to replace worn out, uneconomic aircraft (additional requirements resulting from Federal noise reduction policies not included). Several points central to the program should be noted here:

- The airlines are not expected to need a significant number of new aircraft before 1920 or 1981. Existing aircraft, combined with orders currently on the books and supplemented only slightly by additional purchases, should handle projected traffic increases until then. In addition, because of their poor financial condition, some carriers will find it difficult to obtain financing for new equipment. For this and other reasons, the carriers can be expected to postpone replacement orders until they become absolutely necessary.
- -- On the other hand, to meet the 1984 noise regulation with a new technology aircraft, the airlines would have to place firm orders for such aircraft in the next 12 to 18 months. Thus, there is a gap of from 2 to 3 years between the investment decision the airlines would make in the normal course of events—absent a noise regulation—and the accelerated decision they must make to comply with the noise reduction program.
- -- Many of the noisy four-engine aircraft currently in the fleet will be retired under the airlines' anticipated schedule. But more than half--between 275 and 350--are expected to be still in the fleet by the end of 1984 (as cargo and charter aircraft, if not in passenger scheduled service). Most of these planes are, or soon will be, fully depreciated. However, the expense of retrofitting them, with kits ranging from \$1.2 million to \$4.5 million, would make continued operation in most cases uneconomic.
- The cost of a realistic and economic program to meet the noise reduction requirement by 1984 has been estimated as follows:
 - -- \$400 to \$450 million (in 1976 dollars) for retrofit of approximately 950 two- and three-engine aircraft, 50 747's, and approximately 75 four-engines that may be economical to retrofit.
 - -- From \$4.0 to \$5.5 billion (in 1976 dollars) for accelerated replacement of the other 200 to 275 noisy four-engines expected to be in the fleet after 1984.
 - -- If the airlines choose to retrofit none of the narrowbodied four-engine aircraft then the cost of replacement



increases to a range of from \$5.5 billion to \$7 billion (in 1976 dollars).

- B. The Financial Situation of the Trunk Airline Industry* (Detail in Appendix A).
- Although the national interest quite clearly compels a noise reduction program, the financial condition of the trunk airline industry, and in particular of certain companies within the industry, calls into serious doubt the industry's ability to finance such a program through conventional means.
- In the normal course of events, the airline industry will have to raise on the order of \$25 billion to \$30 billion (in inflated dollars) between now and 1985 in order to purchase an estimated 700 new aircraft that will be made necessary by traffic growth and obsolescence of existing aircraft, to repay debt, and for other miscellaneous capital expenditures.
- As is well known, the air carriers have had almost 10 years of very lean earnings (since 1967 an average pre-tax profit margin of 2.5 percent and ROI of 5.7 percent). There seems little doubt that for the last year or so (principally as a result of the 1974-75 economic recession combined with rapidly escalating costs) the industry's collective ability to finance any major capital acquisitions has been at an extreme low point, both in terms of its own history and as compared to other industries.
- Fortunately, the resurging economy is bringing the industry out of its doldrums and positive earnings are in sight for the next several years. The size of the existing fleet, with the addition of current orders, is sufficient to make the need for new aircraft investments relatively low through the period from 1976 to 1979. By the time substantial new aircraft capacity is needed, it seems likely that the industry will have redeveloped adequate financial strength to fund it. (This assumes no extraordinary financing needs and the help of regulatory reform.)
- However, the realistic noise reduction program would add \$5.6 to \$7.7 billion (in inflated dollars) to the industry's capital requirement, which clearly constitutes an extraordinary financing

^{*} The focus of attention in this paper is on the financial condition of the trunk air carrier industry because the majority of the noisy aircraft, and virtually all of the noisy four-engine aircraft which should be replaced, are concentrated therein. Any financing options considered by either the industry or the government must of course take into account the fact that there are noisy aircraft owned by companies outside the trunk airline industry.

- need.* Capital needs would increase by 19 to 31 percent, from which the airlines would derive no direct traffic or revenue increases, and only slight capacity increases. An incremental requirement of this magnitude is beyond the near-term ability of the industry to finance in any normal fashion, since both the debt and equity markets have been foreclosed effectively for several years.**
- Yet, to obtain delivery of new generation aircraft in time to comply with the regulation by 1984, the airline industry would have to accelerate its replacement schedule and make firm purchase commitments within the next 12 to 18 months. The industry very simply is not in adequate financial condition to make such commitments. It will begin to do so eventually, but too late to obtain the economically and environmentally efficient aircraft desired for the noise reduction program, to generate the jobs needed now in the aerospace industry, and to counter the competitive threat of new-technology foreign aircraft.***
- . Compounding the problem greatly is the financial condition of certain individual carriers within the industry. The use of aggregate data to analyze the ability of an industry to meet a specific financial need is often misleading. Individual companies, possessing a specialized knowledge of their own situation, can find ways around financial barriers that seem insurmountable to the industry analyst. In this case, however, the reverse is true. Several of the financially weakest carriers in the industry are also the owners of large numbers of

^{***}An additional consideration is the potential impact of some approaches that have been proposed for dealing with the industry's re-equipment problem. Frank Borman, the CEO of Eastern Airlines, has recommended, for example, that the industry conduct a design competition, select a single new aircraft, and then agree to purchase that aircraft only. The consequences of such an approach for the competitive structure of the aerospace industry are serious.



^{*} Assumes the combination of replacement and retrofit discussed earlier, with a 5 percent annual inflation rate and using 1982 prices. Excludes those four-engine aincraft possessed by other than the trunk airlines.

^{**}In hearings on the Aviation Act, the heads of several banks and insurance companies, the industry's traditional institutional lenders, testified that they did not anticipate making further loans to any carriers, and advised that capital formation was, and would continue to be, a critical problem for the industry.

noisy aircraft, and will face some of the largest requirements for funds with which to replace those aircraft.

- THA, for example, has had an extremely difficult time remaining solvent over the past year and a half. In fact, having asked for and been refused Federal subsidy, it has avoided bankruptcy only through extraordinary efforts on the part of management and acquiescence on the part of its lenders. TWA's problems will not vanish overnight. Even though it will approach breakeven in 1976, and should see a return to profitability in 1977, the company is a few years away from being an effective competitor for funds in the capital marketplace.* Yet by 1985, TWA probably will require from \$2 to \$3 billion in capital (in inflated dollars) merely to stay competitive and remain in business. The added cost of achieving noise reduction goals (that is, of replacing before 1985 those aircraft that would otherwise remain in its fleet) could increase TWA's capital needs by as much as \$1.5 to 2.0 billion (in inflated dollars) between now and then. Present projections say it is highly unlikely that TWA could finance independently such a tremendously increased capital requirement.
- Two of the other carriers strongly impacted by the noise regulation, Pan Am and American, also have had financial difficulties recently and would face similar problems in financing the purchase of replacement aircraft. Pan Am's capital requirements in the 1976 to 1984 period could increase on the order of \$1 billion (from around \$2 billion to as much as \$3 billion), as would American's (from around \$3 billion to around \$4 billion).
- C. The Keed for a New-Generation Aircraft (Detail in Appendix B):
 - No major new aircraft has been developed in the United States for almost 10 years. In that time important design and technological advances have been made -- many specifically to meet the new economic, operating, and environmental constraints dictated by rising labor costs, energy shortages, and changing market demands.



^{*} TNA's recent announcement that it plans to sell 2 million shares of common stock should not be construed as a sign of ability to compete in the capital marketplace. The company quite clearly has been forced into the sale by financial exigencies and as a result will suffer a serious dilution to its equity base. The shares will sell at a current market price of around \$13 as compared to a book value of \$21. Something like 15 percent of the company will thus be sold for approximately \$25 million, or the price of one 747.

- Although the technology exists, the present inability of the U.S. airline industry to finance a new generation of aircraft prevents the manufacturers from moving beyond the design stage. It is clearly in the national interest, however, and in the interest of the air traveler and the airline industry, to take advantage of of such gains:
 - -- Greater noise reduction: A new technology aircraft would sound about three times quieter than a nonretrofitted 707, and twice as quiet as a retrofitted 707.
 - -- Greater fuel efficiency: In the period from 1981 (when the first new-technology aircraft would be introduced under the accelerated-replacement program) until 1986 (when all new-technology replacement aircraft would be delivered) the total savings in jet fuel is estimated to amount to about 2.5 billion gallons.
 - -- Productivity: Measured against existing aircraft, a new-technology aircraft would offer greater payload for its size and weight, would be more reliable and more easily maintained, and would cost less to operate and less to acquire per unit of productivity.
- D. The Declining Prospects of the U.S. Aerospace Industry (Detail in Appendix B).
- The United States achieved its prominence in the world derospace market because of its technical superiority; most important civil aviation advances historically have been made in U.S. products. But lack of orders for a new plane has virtually stalled technical development since the widebody jets were introduced. Newer foreign aircraft such as the A-300-B show the potential for meeting certain market demands which current U.S. products cannot (i.e. efficient operation over short-medium range routes). This, combined with declines in U.S. Government outlays for aircraft and engines, has already had serious consequences for U.S. airframe and engine manufacturers, a major source of employment and export sales. Since 1968:
 - -- Real industry sales have declined 37 percent.
 - -- Employment has declined 37 percent.
 - -- Aerospace exports as a percent of GNP have declined 42 percent.
 - -- Each \$30 million lost in sales translates into a loss of 1,000 full time jobs and \$15.5 million in payroll.



While the U.S. industry shrinks in real terms, foreign aerospace manufacturers -- spurred by Government subsidy -- are growing larger, more capable technologically, and more agressive. It is conceded that the U.S. cannot continue to hold its present 80 percent market share (of world civil aircraft in operation). The question of how large a share European and other foreign manufacturers take will depend in part on how long U.S. production of a new aircraft is delayed. A 2- to 3-year acceleration of the present timetable could be very important in that it would allow U.S. manufacturers to produce a new generation of planes when U.S. airlines will need them and when new foreign products will be on the market.



VENERAL V

FINANCIAL CONDITION OF THE TRUNK AIRLINE INDUSTRY

The ability of the airline industry to finance equipment replacement depends, as it would in any other industry, on its ability to generate funds internally (through depreciation and earnings) and/or externally (from the equity market and/er debt market). Table 1, following, projects sources and uses for the 1977-1924 period, using the specified economic and traffic assumptions.

1. Internal Sources

- As the table shows, depreciation will yield a total of \$10.0 billion through 1984. Aircraft sales will yield only about \$400 million, leaving the airlines \$18.7 billion short of their total needs of \$29.1 billion. This amount must be met through earnings, new loans, leases, or new equity financing. The cost of a realistic noise reduction program would increase the total need for funds by the end of 1984 by around 23 percent, to \$36 billion and would increase the deficit by around 36 percent, to \$25 billion.*
- Industry earnings are projected to range from \$.3 to \$.5 billion in 1976-1977 to \$.6 to \$.7 billion toward the end of the period,** and could total about \$5 billion, which would leave a financing need of \$13.7 billion, or about \$21 billion when noise reduction costs are taken into account. This "gap" must be ret through external sources -- the equity market and/or the debt market.

2. External Sources

. Because of the airlines' poor earnings record for the past 10 years (see Table 2) both the equity and debt markets have been effectively foreclosed to them for some time. Airline stocks have not been a recommended buy for much of this period, and are not being recommended as an investment for the future, except for possible short-term



^{*} Assumes the cost of the replacement/retrofit program is in the middle of the \$5.6 to \$7.7 billion range.

^{**} To earn \$.5 billion, the industry would have to achieve about 9 percent to 10 percent ROI at current investment levels. Since 1967, ROI for the domestic trunks plus Pan American has ranged from a high of 8.5 percent to a low of 2.1 percent, averaging only 5.7 percent.

gains in the next six months.* At present, airline stocks stand at approximately 60 percent of their 1967 value (versus 120 percent for the Dow-Jones Average).

- The major source of airline debt financing through the 1960's--traditionally the large insurance companies--has been closed for six years. Under New York law, New York insurance companies are forbidden to make further loans. In a statement submitted to the House Public Works and Transportation Committee George Jenkins, Chairman of Metropolitan Life Insurance, said: "... we feel confident that Netropolitan will lose no money on its current airline investments as they rum off, but under present conditions, no new money will be loaned." Before lenders will commit new debt capital, Jenkins added, "(they) will require a sound equity base and good profits ..."
- The DOT is confident that the proposed Aviation Act of 1976 will return the Aviation industry to long-term profitability and eliminate the capital expenditure problem of the future. However, no remedy is seen for the problem of funding the capital decisions that must be made now in order to achieve a quieter and more fuel efficient fleet by the end of 1984. Airline earnings are the key to both internal and external funds generation, but as the forecoing data makes clear even a high level of earnings will not insure that the industry will be able to finance the \$5.6 to \$7.7 billion needed for the noise reduction program through normal means.

3. Problem Carriers

The financing problems anticipated for the industry will be concentrated heavily in major carriers, which have the most four-engine aircraft in their fleet and consequently the greatest retrofit burden, particularly American, TWA, and Pan Am. As shown in Table 3, these three carriers have together accounted for a large portion of the industry's losses over the last five years and, with the possible exception of American, have relatively undesirable debt burdens. Further, as shown in Table 4, American and TWA, (presuming that they could obtain the debt financing they would need,) under the burden of the neise reduction program would have debt/equity ratios of over 4 and 5.7 respectively, while Pan Am's would be near 2. These carriers are likely to have great difficulty in raising the capital that would be required by the noise regulation.

^{*} A potential exception to this statement is the pending TWA issue of .

2 million shares of stock. As explained in the text, the need for such an issue is created by TWA's poor financial situation and at the expected price of the sale will seriously dilute the company's equity base.



PROJECTED USES AND SOURCES OF FUNDS U.S. TRUCK AIR CARRIERS 1977, 1980 AND 1984

(Current Dollars in Billions)

Uses of Funds	<u> 1977</u>	1980	1984	1977-1984
Property & Equipment Debt Repayment Dividends & Other	\$1.2B .5 .3	\$1.6B .5 .6	\$5.7B .4 1	\$24.4B 3.6 1.1
Total Uses	\$2.08	\$2.7B	\$6.2B	\$29.1B
Sources of Funds			•	
Depreciation Sales of Aircraft	1.1	1.1	.: <u>.1</u>	10.0
Total Sources	1.2	1.1	1.7	10.4
Uses Less Internal Sources	\$.88	\$1.6B	\$4.5B	\$18.7B

NOTE: The following growth rates are assumed in the projections:

Keal GNP	3.7%
Inflation	5.1%
RPH's	
Domestic	6.5%
International	5.3%
System	6.2%



·TABLE 2

SELECTED FINANCIAL DATA FOR TRUNK CARRIER INDUSTRY (System Operations, Including Pan Am) 1967-1975

(Dollars in millions)

		Operating Revenue		Pre-Tax Profit		Pre-Tax . Profit Margin		eturn on vestment 1
1967		\$6,117		\$638		10.4%		8.5%
1958		6,902	8	477		5.6		6.1
1969		7,765		247 .		3.2		4.6
1970		8,131		(154)		(1.9)		1.8
1971		8,811		55		0.6		3.7
1972		9,783		266		2.8		6.0
1973ع		10,905		287		2.6		5.6
1974		12,865		447	•	3.5	•	5.8
1975		13,374		(121)		(-)	• • •	2.8
	9 Yr. Total	\$84,653	\$	2,076		2.5%		NA



1/ Return element includes net income and interest on long term debt.

Source: CAB Form 41/TPI-32 Reports

TABLE 3
SELECTED FINANCIAL DATA FOR TRUNK CARRIERS (Including Pan Am) 1971 TO 1975

Carriers with Large Numbers of 4-Engine Aircraft	Operating Revenues (\$ Millions)	Net Income (Loss) (\$ Millions)	Profit (Loss) Margin (Percent)	Debt as a Propor of Total Capitali (Percent)
Trans World	\$ 7,679.9	\$ (24.5)	. (0.3)%	-73.0%
American	7,583.5	(39.5)	(0.5)	45.4
United	9,681.2	155.6	1.6	48.2
Pan American	7,169.1	(233.9)	(3.3).	75.3.
<u>Others</u>				40
Eastern	6,629.2	(65.1)	(1.0)	68.2
Delta .	5,502.5	268.8	4.9	44.8
Braniff	2,281.3	93.1	4.1	57.7
Western	2,113.4	74.5	, 3.5	43.8
Konthwest	2,984.8	.203.5	6.8	28.3
Continental	2,081.4	21.3	1.0	71.7
National	1,821.1	82.3	4.5	46.7

^{1/} Trunk Air Carriers - System Operations, December 31, 1975



PROJECTIONS OF DEBT EQUITY RATIOS,
SELECTED TRUNK CARRIERS, 1976, 1989, AND 1984

TABLE 4

(Dollars in Billions)

AIRLINE	ANTICIPATED CAPITAL EXPENDITURES (1977-1984)	LONG TERM DEBT/ EQUITY1/ 1976 1980 1984	ADDITIONAL REPLACEMENT CAPITAL REQUIRED BY 19842/	DEBT/EQUITY RATIO INCLUDING REPLACEMENT FINAN (1984)
American	\$3-3.5	.78 .47 2.3	\$1.2	4.4
Pan Am	1.8	3.0 1.7 .74	1.0	2.17
TMA	\$23	3.0 2.2 2.8	1.5-2.0	5.77
United	4.2	1.1 .56 .34	2.0	1.52
Industry ,	\$27.1	1.3 .74 .98	5.6-7.7	1.78

SOURCE: Alliance One Institutional Services and TPI-32

- 1/ Assumes borrowings for capital needs without respect to carriers ability to obtain financing.
- 2/ Based on number of four-engine aircraft remaining in fleet after 1984, with replacements (including spares) valued at a 1982 cost of \$27 million each.



APPENDIX B

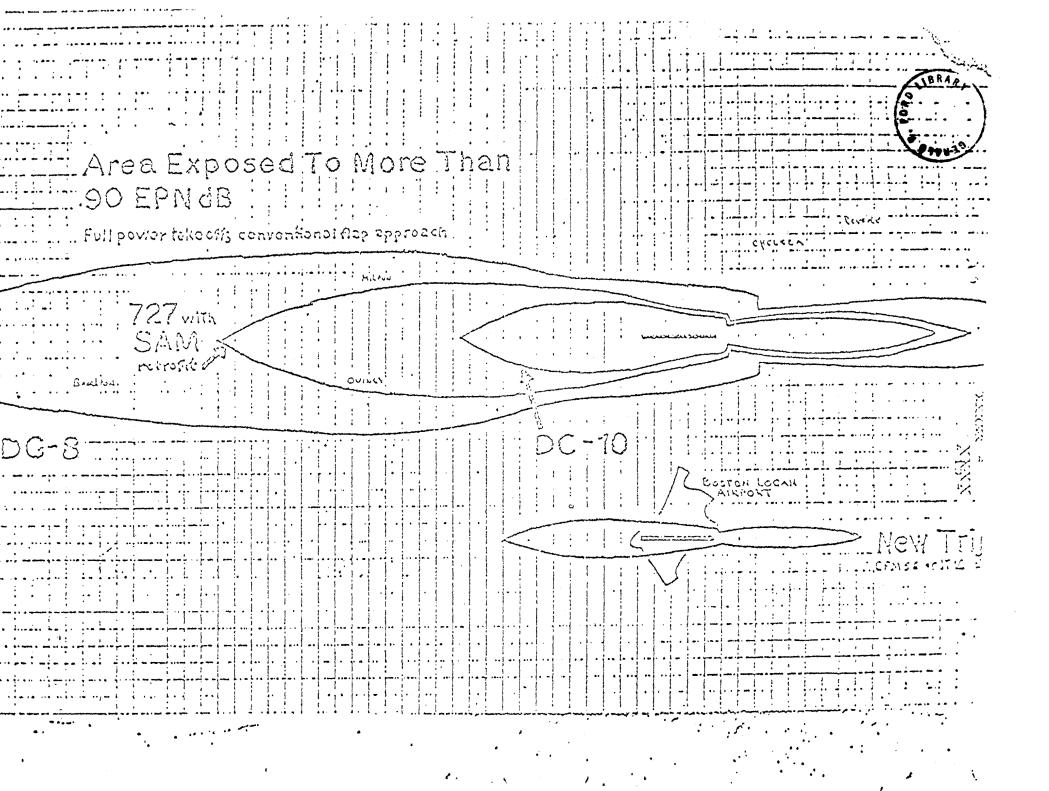
ADVANTAGES OF ACCELERATED DEVELOPMENT OF NEW TECHNOLOGY AIRCRAFT

1. Greater Noise Reduction

- A new-technology replacement aircraft would be far quieter than the quietest existing aircraft. The gain achievable is illustrated in Figure 1, which outlines the area exposed, on a single event, to a noise level equal to or greater than 90 EPRdB--roughly equivalent to the sound of a busy downtown street.
 - -- The 90 EPNdB contour of the 707/DC-8 aircraft (technology of the 1950's) extends more than 20 miles beyond the brake release point of takeoff and roughly nine miles prior to the touchdown point on landing.
 - -- The DC-10, employing the late 1960's technology CF-6 engine, is able to confine the 90 EPNdB contour to a much smaller area, equivalent to the over-water area south of Logan International. It is significantly quieter than a SAH retrofitted 727, which meets FAR 36 standards.
 - -- Further important noise reduction advances are reflected in the noise contour of a new Tri-jet which has double layer acoustical linings, and the 1970's technology CFM-56 or JT10D engines with new design fan and turbine stages. Those engines are expected to be available for use in new aircraft.

2. Productivity, Operating and Safety Gains

- Technological advances possible today will result in a new aircraft with greater payload for its size and weight—an aircraft that is more reliable, more easily maintained, costs less to operate, and costs less to acquire per unit of productivity. These benefits accrue to the public, the air traveler, and the airlines.
- Greater efficiencies are achieved through such technological advances as:
 - -- Supercritical aerodynamics concepts in wing airfoil and body design, which can yield a lighter and more efficient aircraft.
 - -- Lighter, more aerodynamic propulsion system and more efficient engines and nacelles.
 - -- Digital electronics for avionics systems and in-flight control to avoid engine abuse, improve navigation and approach precision, provide increased reliability, maintainability, safety and fuel efficiencies.



- New structural concepts, new materials, and computer-aided designs
 which will result in a lighter aircraft made up of fewer, less
 complex parts.
- The new aircraft will be safer for the air traveler, through improvements in inflight control, and new interior materials of much improved flammability/smoke/toxicity characteristics.
- The new aircraft will comply with the more rigorous engine pollutant standards set for 1979.
- The new aircraft, by virtue of improvements in systems and avionics, will be certified with a two-man flight deck crew--an important contribution to control of airline costs and hence ticket prices.
- In terms of seats, range and operational characteristics, the new aircraft will be more closely attuned to marketing requirements of the late 1970's and mid 1980's. On many routes today the aircraft used are smaller than optimal, making additional flights necessary; on other routes aircraft of longer range than necessary are used, which incurs both weight and efficiency penalties. A market-matched aircraft would convert into increased airline efficiencies.
- The new aircraft will use computer-aided flight profile management, which increases aircraft, airport and airways system productivity.
- The new aircraft will accept the standardized interline cargo container (LD-3). This would allow much improved efficiency in the high growth air cargo industry, by avoiding such of the labor and handling costs, while interfacing efficiently with all-cargo and interline air cargo services.

3. <u>Energy Savings</u>

- Replacement of 707/DC-8 aircraft with new, high-technology aircraft would result in reduced energy consumption per seat mile flown. 1/ The estimated magnitudes of the savings from various noise reduction programs are shown below:
 - -- A program resulting in the retrofit of about 100 of the 707/DC-8 aircraft and replacement of the rest with new, high-technology aircraft would provide an energy saving of about 2.5 billion gallons of jet fuel--an energy cost saving of about \$900 million over the period of the program (1981-1986) at today's price.

If This is based on comparison of the fleet mix that was estimated to result from implementation of the proposed programs with the fleet mix estimated to result in the event that no program were undertaken. The new, high-technology aircraft is estimated to be 30% more fuel efficient than a 707/DC-8 on a seat mile per gallon basis.

- -- A program resulting in the replacement of all 707/DC-8 aircraft with new, high-technology aircraft would provide an energy saving of about 2.8 billion gallons--a cost saving of over \$1 billion over the program period.
- --- A program resulting in the retrofit of all 707/DC-8 aircraft would impose an additional energy requirement of about 220 million gallons over the program period.
- -- It should also be noted that retrofit of the 727/737/DC=9 aircraft would not cause a measurable change in the energy requirement of the commercial aircraft fleet.
- -- The annual energy saving of the program would in 1986 amount to about 8% of the total jet fuel consumption of the commercial aircraft fleet.

4. Positive Impact on the U.S. Aerospace Industry

- The 2- to 3-year gap between expected development and accelerated development of a new-generation aircraft is significant for the national interest in general, but could be crucial for the U.S. aerospace industry. Lacking a market for a new plane -- and thus the opportunity to put their drawing-board technology to work -- the U.S. manufacturers already have lost some of the technological advantage they have always enjoyed over foreign competition.
- A potentially more critical loss is U.S. share of the world aerospace market. If delivery of a new aircraft is delayed to 1985, as appears likely absent the spur of a realistic noise reduction program, foreign competition with newer products to offer may secure their hold on a major share of the world market, and the U.S. industry may decline to a level from which it cannot easily recover.*
- * The economic impact on the aerospace industry and on the U.S. economy in general would be enormous. With sales of \$28 billion, and employment of around 950 thousand, the industry has been a major factor in the U.S. economy for nearly the last quarter century. Since 1968, however as a result of the problems of its client industry, the U.S. airlines, and a reduction in military purchases aerospace has experienced a very sharp decline:
 - -- Direct employment has declined 37 percent.
 - -- Industry payroll as a percent of all manufacturing payroll has declined 30 percent.

W.S. 180-to-200 passenger aircraft, U.S. airlines are looking at such foreign aircraft as the French-made A-300-B, which already developed is substantially cheaper — though less efficient — than a new generation U.S. aircraft would be.

- .-- As a percent of GMP, aerospace industry sales have declined 42 percent.
- -- Real aerospace industry sales have declined 37 percent.
- As the real domestic and military markets have declined, U.S. manufacturers have grown heavily dependent on foreign markets for sales of civil aircraft. Since 1968 civil aircraft exports as a percentage of total civil aircraft sales have almost doubled.

 U.S. airframe and engine manufacturers have turned more and more to consortiums with European firms, both to share developmental costs and to ensure continued access to European markets. However, the consequent sharing of production will further erode U.S. aerospace employment.*
- Anxious to reduce U.S. dominance of the lucrative aerospace market, foreign governments have become increasingly protective of their own aerospace industries and markets, and increasingly aggressive about penetrating other markets, forming alliances where necessary to do so (the French and German combined forces to produce the successful A-300-B). Thus, while the U.S. aerospace industry has been declining in real terms, European and other foreign governments have been subsidizing expansion of their own aerospace industries, and threaten to encroach on both the U.S. and world markets. A loss of only 5 percent of present U.S. sales to foreign competition would result in a loss of 47,000 jobs and \$729 million in payroll.
- Assuming that past relationships hold true, the proposed program would accelerate by 2 to 3 years the rehiring of about 25,000 aerospace workers at a payroll of about \$400 million a year.



^{*} An important consideration here is the effect erosion would have on the structure of the U.S. aerospace industry. The competition between the three major manufacturers has helped to establish and maintain U.S. technological superiority. If a sizable share of the world market is lost to foreign competition, one and possibly two manufacturers could suffer seriously.

... Che mantiers rinarces -

CARRIER ORTRIBUTION AND ENTITLEMENT (Dollars in millions)

	Cont	tribution (2%		Number o	f		61413
<u>Carrier</u>	Passenger	& Waybill Sures, 1977-1986)	charge-	Non-Complyi	ng	. <u>Total</u> Entitlementl	. Entitlement less
<u>Trunk</u>							
American Braniff Continental Delta Eastern National Northwest Pan American Trans World United Western Total Trunk	<u>«</u>	\$ 424.8 119.8 132.5 384.0 357.1 83.2 162.3 28.7 319.4 598.3 126.2 \$ 2736.2		91 11 5 34 - 10 79 90 100 23 443		\$ 377 124 112 299 342 75 171 353 379 469 109 \$ 2810	\$ (47.8)
Local Service Allegheny Frontier North Central Ozark Piedmont Air West Southern Texas Internati		\$ 103.5 41.2 39.6 31.5 35.9 44.0 26.3 15.8 \$ 337.8		 	· ·	\$ 80 37 34 28 28 28 38 25 17 \$ 287	\$ (23.5) (4.2) (5.6) (3.5) (7.9) (6.0) (1.3) 1.2 \$ (50.8)

^{&#}x27;Total'entitlement is determined by distributing the funds collected among carriers, on the basis of the propertion that each carrier's system revenues bear to the total of all revenues collected by the carriers.

THE WHITE HOUSE

WASHINGTON

August 30, 1976

MEMORANDUM FOR THE PRESIDENT

FROM:

JIM CANNO

SUBJECT:

Aircraft Noise Proposal

This is an important environmental decision which could have considerable political impact.

You may want to meet with Secretary Coleman, Jim Lynn, Dick Cheney and myself to discuss major points in this memorandum before you reach your decision.



MEMORANDUM FOR THE PRESIDENT

FROM:

JIM CANNON TE

SUBJECT:

Secretary Coleman's Proposal on Aircraft

Noise

Secretary Coleman proposes that he announce, at a Congressional hearing on Thursday, September 2, 1976, a new Administration policy to establish noise standards for all commercial aircraft, to be met by the end of 1984. His memorandum to you is at Tab A.

POLICY ISSUES

Secretary Coleman's proposal raises two policy issues for your consideration:

- 1. Should the Ford Administration initiate stricter noise standards and regulations for U.S. commercial aircraft?
- 2. If so, should the Ford Administration announce a \$3.5 billion proposal to assist U.S. airlines in paying the cost of meeting the new Federal standards and regulations?

SUMMARY OF THE COLEMAN PROPOSAL

Secretary Coleman has submitted to OMB a 100-page Aviation Noise Policy Statement which would:

1. Place responsibility on state and local governments and airport proprietors to reduce the human problem of aircraft noise by locating airports outside populated areas, by zoning, and by buying land around airports.



- 2. Place responsibility on the Federal government to set and enforce noise standards for some 1600 planes (77% of the existing commercial fleet) which do not meet the FAA noise standards that apply to new planes coming off the production lines.
- 3. Provide financial assistance to airlines to muffle or replace their older, noisier planes by-
 - a. reducing the Federal tax on fares and freight by 2%;
 - b. imposing, simultaneously, a 2% environmental surcharge on fares and freight, with the money going into an industry-administered trust fund from which the airlines could draw for this purpose only.

OBJECTIVES OF THE COLEMAN PROPOSAL

In brief, Secretary Coleman states these objectives:

- 1. To reduce noise levels at and around metropolitan airports. For 600,000 Americans
 around 5 major airports, aircraft noise is
 a serious problem. For 6 million Americans
 around 100 airports, noise is a significant
 problem.
- 2. To conserve energy. The quieter engines on new planes are 25% to 40% more efficient in fuel use.
- 3. To stimulate jobs. Refitting and replacing some 1600 older planes would create 240,000 job years in the private sector.
- 4. To preserve the U.S. share of the world aircraft market. Next to agricultural products, aircraft is our biggest dollar export.



BACKGROUND

In 1968 Congress passed a law requiring the FAA to issue noise standards for new and existing aircraft.

In 1969, FAA issued standards (Federal Aviation Regulations, Part 36, "FAR 36") that require aircraft produced after January 1, 1975, of the size of 707's to make 50 percent less noise than existing 707's and DC-8's. All DC-10's and Lockheed 1011's meet FAR-36 standards; most 747's do.

FAA has not extended FAR-36 standards to some 1600 older aircraft. No 707's and DC-8's meet the standards; most 727's, DC-9's, and 737's do not.

The State of Illinois filed suit July 12, 1976 against the Department of Transportation to force FAA to comply with the 1969 law.

EPA, which has jurisdiction to propose (but not enforce) aircraft noise standards, has proposed that all older commercial aircraft be required to meet the standards for new aircraft.

To reduce the noise problem, some airports—such as Washington National—impose curfews on jet planes. But these can have a significant economic impact, especially with air freight and mail. On August 20, 1976, the Massachusetts Port Authority reversed its earlier decision to impose a night curfew at Boston's Logan Airport after an economic impact statement predicted a loss of up to 17,000 jobs and \$1.3 billion in annual sales.

CONGRESSIONAL SITUATION

Nine separate bills have been introduced in Congress to deal with the aircraft noise problem. Some would require the Federal government to pay for the muffling of all commercial aircraft that do not comply with the FAA standards.

No Congressional action to extend FAA standards to all commercial aircraft is expected at this session. Max Friedersdorf estimates that no more than 50 Congressmen consider aircraft noise a serious problem in their districts.



OPTIONS

Option 1: Should the Ford Administration initiate new noise standards for all commercial aircraft?

Arguments for:

- Secretary Coleman feels strongly that the enunciation of an aircraft noise policy is an appropriate action of Presidential leadership.
- . If no action is taken by the President, the next Congress may attempt to legislate standards--much as Congress did on water quality and air quality.
- . FAA may, on its own initiative or as a result of a court decision, set noise standards for aircraft.
- . Aircraft noise would be reduced over the next eight years.
- . A Presidential decision could emphasize your concern for improving the quality of life in America--with the additional benefits of jobs, energy conservation, and maintaining U.S. leadership in aircraft sales throughout the world.

Arguments against:

- Initiating new regulation of a major industry goes against Administration policy of reducing Federal government regulation of industry.
- . There is no compelling pressure for Federal action at this time--either from Congress or the courts.
- . An Administration noise policy would increase pressure for Federal action to assist the airlines in meeting the noise standards.



Option 2: If you decide to authorize Secretary Coleman to initiate new noise standards, should you also authorize Secretary Coleman's proposal to assist the airlines in paying the cost of meeting the new standards?

Under Secretary Coleman's plan:

- -- Congress would reduce the Federal domestic passenger ticket tax from 8% to 6% and the domestic freight tax from 5% to 3%.
- -- Simultaneously, CAB would authorize the airlines to impose a 2% environmental surcharge for 10 years on all domestic passenger fares and freight waybills, with the money to go into an industry-administered Aircraft Replacement Fund.
- -- Each U.S. airline would draw from the fund a share based on the ratio of its total passenger and cargo revenues to the aggregate of passenger and cargo revenues for all U.S. owned airlines. Each airline would be required to use its share to replace aircraft which do not meet noise standards.
- -- Congress would also authorize the airlines to draw \$250 to \$300 million from the Airport-Airway Trust Fund (which has a surplus of \$1.3 billion) to muffle older two-engine and three-engine aircraft.

Arguments for:

- . Secretary Coleman's proposal would provide the airlines with about 50% of the capital they would need to meet the noise standards.
- . It would create 30,000 jobs annually over the next eight years.
- . It would bring into service a fleet of quieter commercial airplanes that would conserve fuel (25% to 40%) and lower operating costs for airlines.



- . It would make it possible for U.S. aircraft manufacturers to develop a new generation of aircraft.
- . It would allow the user-tax principle, i.e., the users of aircraft would pay a tax to meet an environmental problem created by airplanes.
- . It has the support of the Air Transport Association. ATA proposed a similar plan, which Coleman modified and now supports.

Arguments Against:

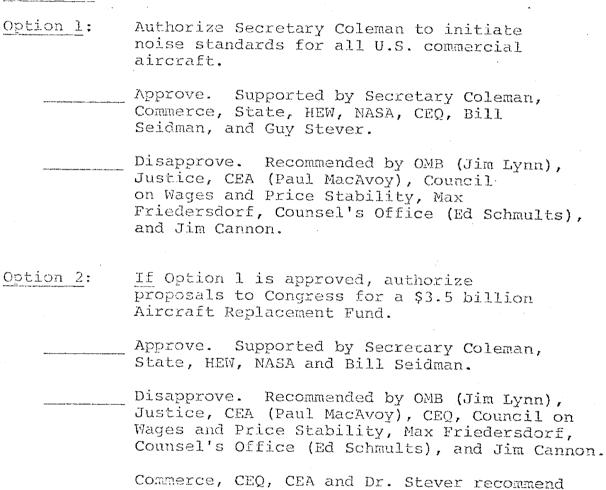
- Any step to have the Federal government impose a surcharge to meet capital requirements of private industry is without precedent, and would be criticized as a Federal bail-out of big business.
- . Pooling and redistributing funds in this way is contrary to Federal antitrust policy.
- It would reduce Federal revenues by \$300 million yearly for ten years (OMB estimate).
- The program would tend to help weak and inefficient airlines, and penalize strong, wellmanaged airlines.
- . The CAB, which has the statutory responsibility to protect the public interest in airline service and rates, could assist the airlines in meeting the noise standards by appropriate fare increases.
- . Since the 2% environmental surcharge would not apply to international flights, one airline-Pan American--would receive \$324 million more than it collected, while most other airlines would receive less than they paid in. (Tab B)
- Members of the Ford Administration, including Secretary Coleman, have consistently stated that adoption of the Administration's proposed Aviation Act of 1975 would lead to financially healthy airlines which earn reasonable returns and can finance their own aircraft replacement.



COMMENT

I recommend against approving Secretary Coleman's financing proposal. However, if you should choose to approve this financing plan, I recommend that you consider certain modifications to it, e.g., create no separate fund but permit airlines to keep the money they raise, consider imposing a take-off and landing fee instead of the 2% surtax, etc.

DECISIONS



further study of the financing issue.



THE WHITE HOUSE

WASHINGTON

September 10, 1976

MEMORANDUM FOR THE PRESIDENT

FROM:

EDWARD SCHMULTS

SUBJECT:

DOT Proposal on Noise Pollution

and Aircraft Financing

Very briefly, I believe much more work should be done on the financing aspects of this proposal before you make a decision. Some threshold objections which I believe support my recommendation are as follows:

- -- Precedential considerations are significant, i.e., should the federal government finance capital requirements for a major private industry.
- The proposal is not really "free" -- we all know there is no "free lunch" -- another option would be to return the 2 percent tax to the public, with a resulting decrease in air fares and an increase in traveling.
- -- Your Administration, which has championed the free enterprise system, should not, without more analysis, put forward a proposal which is based in part on the argument of "competitive equalization". What this means to me is government support of the weaker airlines which, on a worse case basis, will lead to more and more government assistance and eventually government ownership as these airlines are unable to survive unaided during business downturns. In a real sense, we weaken the stronger airlines which on their own are able to finance new aircraft. (See also the last point below).



- There is no requirement that the money will be used to finance a new generation of jet aircraft and thus advance the competitive position of American airplane manufacturers in world markets. In today's Wall Street Journal there is an article that American Airlines is buying ten Boeing 727's to replace aging planes that burn too much fuel and don't meet federal noise standards. If the money can be spent this way, does the proposal make sense? This consideration should be given more thought.
- -- Through this proposal, should the Administration really encourage an allocation of \$2 2 1/2 billion over the next ten years into new jet aircraft? Isn't it possible this will be a misallocation of resources? Doesn't the market do a better job than government bureaucrats?
- -- This proposal will be seen by some as a turnabout on airline regulatory reform. The air bills now before Congress, including the Administration's, have been seen by some market analysts as leading to a much more profitable airline industry. We should not make a quick decision on this proposal as industry circumstances seem to be improving.
- The Administration may be viewed as being too closely allied with big business a la the Lockheed situation which has some parallel to this proposal. By supporting Lockheed with a loan guarantee, one can argue that the federal government really weakened the United States commercial air frame industry. Without the Lockheed guarantee, resources would have been deployed elsewhere and presumably Boeing and McDonnell-Douglas would be stronger world competitors today. Lockheed teaches that once into an industry it is tough to get the federal government out.



THE WHITE HOUSE

WASHINGTON

INFORMATION

September 16, 1976

MEMORANDUM FOR THE PRESIDENT

FROM:

EDWARD SCHMULTS

SUBJECT:

DOT Aircraft Noise and

Related Financing Proposal

At our meeting on Saturday I expressed some optimism for the passage of aviation reform legislation. My statement was based on the information set forth in the attached memorandum entitled "Prospects for Aviation Regulatory Reform."

Attachment

cc: Jack Marsh

Jim Cannon

Alan Greenspan



Prospects for Aviation Regulatory Reform

On October 8, 1975, the President sent to Congress the Aviation Act of 1975 which proposes fundamental changes in regulations governing our nation's airlines. Since that time, support for reform has grown significantly and at present, prospects for enactment of significant reform in this area appear good in the next session.

Evidence in Support of this Assertion

- The need for reform was substantiated in a lengthy report by the Senate Judiciary Subcommittee on Administrative Practices and Procedures. At Senator Kennedy's instigation, this committee held extensive hearings on CAB regulation and concluded in February of this year that current regulation no longer serves its intended purposes but rather acts to suppress the growth and economic health of the airline industry and causes consumers to be given less service at higher prices than would be the case absent rigid Federal controls.
- On April 8, 1976, Chairman Robson of the Civil Aeronautics Board testified before the Senate Committee on Commerce, Subcommittee on Aviation, that there is a substantial need to redirect existing economic regulation of airlines to increase reliance on competitive market forces rather than government controls to provide efficient, low-cost air transportation to consumers. The Board subsequently submitted legislation that would significantly revise their statutory mandate to delete their promotional responsibility and require consideration of the effect of the Board's actions on competition.
- On May 3, 1976, Senator Kennedy introduced his own legislation that calls for a greater degree of "deregulation" than was called for in the Administration's proposal.
- The Senate and House Aviation Subcommittees have held a combined total of 29 days of hearings on airline regulation and the Subcommittee Chairmen have both acknowledged the need for reform:
 - In June, Senator Cannon, in a speech to the Aeroclub agreed with would-be reformers that more competition was needed in the industry and announced that he would be introducing legislation to encourage competition, to provide the airlines new fare flexibility and to expedite regulatory proceedings of the CAB. Introduction of that legislation is expected within the next three weeks.

- Also in June, Chairman Glenn Anderson of the House Aviation Subcommittee and Gene Snyder, the Ranking Minority Member, introduced legislation which would provide carriers with considerable pricing and entry flexibility and encourage healthy competition. This bill addresses most of the major reform measures sought by the Administration.
- There is widespread agreement even among the airlines that some reform is necessary and desirable. Points on which most interested parties agree:
 - . The need to revise the Aviation Policy Declaration in the Federal Aviation Act to stress the need for competition.
 - . The need to provide the airlines with greater pricing flexibility.
 - . The need to clarify or formalize in legislation recent Board decisions or statements, e.g., charter policies, the ability of carriers to operate as both a scheduled and a supplemental airline simultaneously, etc.
- The financial community's position on regulatory reform is divided on the future profitability of the airlines given reform. Although initially there was unanimous opposition to reform, now Saloman Bros., H. C. Wainwright & Co., and others have indicated that reform along the lines of the Aviation Act "would be a positive development".
- The need for regulatory reform and the Administration's efforts to encourage Congressional action have received major news treatment or highly favorable editorial press coverage in the Washington Post, the New York Times, Wall Street Journal, Chicago Tribune, National Journal, Christian Science Monitor, the Miami News and the Journal of Commerce, to name a few.

