



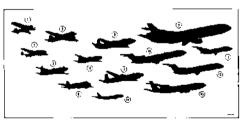
# Continental Airlines The First Fifty Years

by

R. F. G. Davies

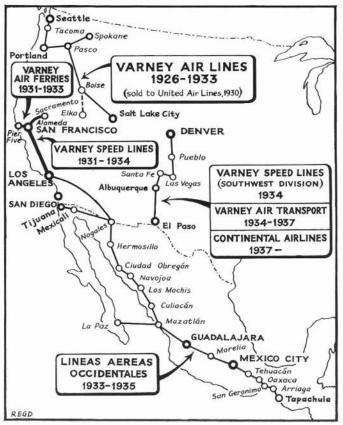
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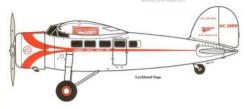


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Walter Varney's Airlines, 1926-1937. During the early 1930s, Walter Varney started many airlines. One of these survived to become the Continental Airlines of today.



# Varney Air Transport

1934-1937

#### A Doubtful Start

Possibly the most remarkable aspect of the foundation of Costilimatal Aichines relates not to the manner in which is wast born, but that it was ever born at all. For an aritime to survive, if shoold possess good administration, a good in a survive in the survive of the survive in the survive in the survive of the survive of the survive or all four counts, the first leaf into which is started service or shall be 1988, to fink Colorado with weetern Texas the nor measure us to to well.

The administration of Variesy Speed Lines, Inc. (Southusestam Division)— for this was the impression title of Continental when it was founded — was the appione of what is immirrium brown as a shee efficient cultitude of the continent of the continent of the continent were bore plotts, Avery Black, Jess Harz, John Moetiss, and Earl Campbell, and of these, Black doubled up as general consage. Accountant Roy Snodes, maintenance clutted Den Dusies, artist manage Feed Ward, and secutory Mrs. Solitons Colomos completed the said under the and Loos H. Moetler, who supplied for manner.

The airline's survival in those early days owed much to Louis H. Mueller, whose feen business sense acted as a basis and theorie control upon the efforwacent Varney, who was prepared to charge of on speculative ventures at the drop of a hat, and frequently did. Mueller, a small, determined individual with a sharp mind, made a good foil for Varney — a role he was later to play for an equally dynamic personality.

#### Walter T. Varney

Varney was a man of ideas, and a man of action, typical of the pioneering beed of avaision entreprenues who were legicly responsible for the creation of a United States at rime system. But he was eddoon able to sattle down to a systematic course of development, preferring to yier rein to his restlies imagination every few years by embarking on new. Though on a rune-posity wild a share

His previous assistion career had already included three different asilons between 1986 and 1934, following a period in California where he had conducted unstry air services, including a level service cores San Francisco Bay. This was in the early Twenties when the United States was uncertain as to what use would be made of a surgious surgianes. Werney broaded had learned to fix in public had been rooter other than California Mulleria, an using relationship which was later to mutuate lotte a powerful business gasterness. Walter Varney was one of those visionary aviators who foresaw a fature for the airplane as a commercial transport vehicle. He came close to becoming one of the great legendary figures of aviation, but he never quite settled down to one project for a long enough period to become established. The nearest he got to attaining stem to respectability was when, early in 1926, he founded Varney Air Lines. This was in direct response to the provisions of the Contract Air Mail Act, passed on February 2, 1925, for the specific purpose of transferring the task of carrying United States air mail from the post office to independent air carriers, who were invited to bid for contracts Covering designated intercity routes.

Varney Air Lines won the contract to carry the air mail between Elko, Nevada, and Pasco, Washington, and began permanent service on June 6, 1926, after a false start three months earlier. The choice of this pair of points, at first glance of negligible traffic potential, was typical of Varney's lively imagination. He discerned that the establishment of a northern transcontinental route through the Dakotas and Montana, to reach the Pacific Northwest (and thence to Alaska) was still many years away; and that the logical connection from the east to Seattle, Portland, and Puget Sound would be by a branch line from the already-established air mail route linking Chicago with San Francisco. In fact, Pasco was an important junction for both the Northern Pacific and the Union Pacific Railroads where they came face to face with the Columbia River and diverged to serve Seattle and Portland

After changing the line's southern terminus in 1927 to the more populous Salt Lake City, and extending it northwards to Spokane and Seattle in 1929, Varney sold the entire outil to Boeing Air Transport, the largest division of United Air Lines, in 1930. By this line, former flight instructor, Louis Mueller, had become Varney's lawyer and right hand, and he was instrumental in raising United's bid for the route, whose strategic importance was now realized, from one to two million dollars.

Varney used the money to start another airline in California, the Varney Air Service Ltd., also known as Varney Speed Lines. He began flying from Alameda, on San Francisco Bay, to Los Angeles in January 1932, on a I hour S8 minute schedule, using the fast new Lockheed Wegas, whose trim lines and aerodynamic efficiency had demonstrated a clear improvement on the Swallows and Stearmans which he had used on the air mail route in the Northwest. The connection across the Bay to downtown San Francisco was made by Vanney Air Ferries, using single-engined Sikorsky S-39 amphibians for the 6-minute hop, With a fair for publicity. Vanney offered a dollar to each passenger for every minute that the San Francisco Los Angeles flight was late, a tribute both to the Lockheed design and to the reliability of the single Part & Wilhirson Wonners Wonners with the San Part & Wilhirson Wonners when the single Part & Wilhirson & Wilhirson

By 1933, however, he had abandoned the intracalifornia service, and had ventured into the international arena, seeking what appeared to be a great opportunity to secure a lucrative air route between California and Mexico, He negotiated an air mail contract with the Mexican government, established connections with some independent airlines in Mexico, and began service from Los Angeles to Mexico City early in 1933. This too was to be as short-lived as previous Varney enterprises, as he fell victim to the predatory maneuvers of another large airline corporation, Pan American Airways. Pan Am coveted the California Mexico route, as a vital link in its master plan, and in February 1935 Walter Varney suddenly found himself without a contract.

#### Walter F. Brown and the Air Mail Scandal

The unpromising route from Denver to El Paso had previously been a minor pawn in the complex game being played with the air mail contracts during the 1990-1933 period. The United States was like a chess-board, with the postmaster general, Walter Folger Brown, acting as Grand Master on one side of the board, and the airlines complying with the Grand Master's game plan on the other. Western Air Express had operated the Denver El Paso route, and when the air mail contracts were all cancelled during the political upheaval accompanying Brown's isomonimous departure from office in the fall of Brown's isomonimous desparture from office in the fall of



Avery J. Black was Varney's first chief pilot and general manager.



Louis Mueller, who financed Varney in 1934, was his former check-out pilot, and subsequently became his financial adviser and partner.



Walter Varney, co-founder of Varney Speed Lines, learned to fly at the end of World War I, and then became a vigorous promoter of air transport.



On July 15, 1934, Jess E. Hart was sworn in by El Paso postmaster, M. L. Burleson, to carry the mail. Hart then made Varney Speed Lines' first flight to Pueblo. He carried 100 letters, but no passengers.

1933, this was one of the few which actually changed hands.

The creation of Varney Speed Lines as a north-south operator in the sparsely populated Rocky Mountain area could thus be attributed to political opportunism, or more accurately, private enterprise staking advantage opportunism, Without the Air Mail Scandal of 1933-34, when President Rooseveit abruptly cancelled air mail contracts on February 9, 1934, and then authorized Postmaster General James Farley to call for new bids on April 20, 1934, the Southwestern Division of Varney Speed Lines, later to become Continental Airlines, would never have existent.

Walter F. Brown had exercised his powers as postmaster general by awarding locrative air mail contracts to those companies which met his criteria for qualification. In general, these latter appeared to be possessed only by rich, powerful corporations such as United Aircraft, the Aviation Corporations, and General Motors, whose well-equipped aviation subsidiaries and associates accounted for 91 percent of the U.S, domestic mail in 1933. Brown manipulated the provisions of the Third Amendment of the Air Mail Act (better known as the McNary-Watres, or simply Watres Act), approved by Congress on April 29, 1930, to fashion an air mail route network which became the foundation of the system that we know toda, But to do so, be did more than apply the letter of the law. He circumvented its intent by a succession of route awards — for this is what the air mail contracts amounted to — whose Machiavedlian complexities led to questions as to his integrity being asked in high circles, especially when it was revealed that many of the best contracts had been distributed under question—able circumstances after what became known as the Spoils Conferences in Washington. The lion's share had all gone to Brown's favorite corporations, while the "little square" had often sone beseing.

When the dust of a congressional inquiry had settled, with Brown banished to obscurity, the post office was ready to go back to a new chess game, following tremendous public pressure resulting from a sol interbude during which the Army had carried the mail, and several pilots had been killed in the process. Ironically, most of the big contracts were reissued by the Democratic administration to the former giants who had dominated the industry during Republican days, but just a few, consisting almost entirely of routes of low air mail traffic potential — the crumbs from the master's table — became available under a tightly scrutinized competitive bidding process.

#### The First Route

And so Walter T. Varney, who provided the name and the know-how, and Louis H. Mueller, who provided the finance, made their bid for Route Number 29, one of the minor items in the list of 32 routes designated by the postmaster general when 45 airlines gathered together in a room of the Post Office Department in Washington on April 20, 1934. In terms of length, the 530-mile Pueblo-El Paso route did not measure up to the extensive awards to the Big Four - United, T.W.A., American, and Eastern; nor, for that matter, to others, exceeding 1,000 miles in length, awarded to Northwest, Delta, Hanford, or Long and Harmon; or even to those approaching that distance, awarded to Braniff, General (Western), Pacific Seaboard, or Wyoming Air Service. True, it was not the shortest; but most of the other short routes included at least one large city in the contract.

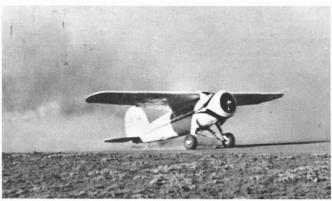
In the context of Varney's other ambitions, however, the diminuitive route linking Colorado's second city, Pueblo, with the fifth city of Texas, El Paso, had some merit, with a deeper significance than might be perceived at first sight. For El Paso was directly across the Rio Grande from Ciudad Juarez, the northern terminus of the central trunk route, sometimes known as the Aztec Trail, leading directly to Mexico City, via several important cities. Afready possessing the Mexican mail contract for the Mexico City Los Angeles route, via the Pacific Coast, Varney and Mueller perhaps had in mind the idea of some link between the Southwestern Division of Varney Soed Links and his big route, possibly at first by a

link from El Paso/Juárez to Nogales.

In 1934, Varney had probably not realized the power of Pan American in Mexico. The instrument chosen for the developing foreign air routes by the resourceful and dictatorial Walter F. Brown had been Pan American. Every single U.S. foreign air mail contract, except those to Canada, had been awarded to Pan Am or its associates; and the chosen instrument policy was tacitly retained by the Democrats even after the Air Mail Scandals. Pan American had secured its position in Mexico in 1929 by buying the largest Mexican airline, C.M.A. (now Mexicana), and when Varney attempted to intrude in its territory, it moved quickly, exerting political pressure to withdraw the latter's Mexican mail contract. Additionally, Pan American secured the central route between Ciudad Juairez (and thereby El Paso) and Mexico City by setting up a subsidiary, Aerovias Centrales (Central Airways); although later, for obscure reasons, this was allowed to pass to an airline formed by Gordon Barry, a friend of Varney's who had sometimes hitched a ride to California from his local operating base in Mazatlan.

Such strategic speculation was of little worth, however, when Varney Speed Lines (Southwestern Division),
with its base at Denver, began service between Denver
and El Paso on July 15, 1934, Mueller had judged that,
even without the mail contract north of Pueblo, a singleplane service from the Colorado capital was essential to
attract passenger traffic. The fact that the first segment
of the mail route south of Denver was allocated to
another airline was a quaint survival of the old system.
Wyoming Ali's Service won the contract on a CheyennePueblo route, with the important city of Denver only an
en route stox: and it took a few wears to straighten up this

awkward arrangement.



The little Lockheed Vesa kicks up the dust on the gravel runway at Sante Fe, New Mexico.



Varney operated from modest ground facilities. This was the airport at Pueblo in 1935.

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Exhibit A. Varney Speed Lines timetable, July 15, 1934.

The first Varney air route was thus Denver-Pueblo-Las Vegas (New Mexico)-Santa Fe-Albuquerque-El Paso. carrying passengers, mail, and express, but restricted to passengers and express only between Denver and Pueblo. The aircraft selected for this operation was the Lockheed Vega, capable of carrying six passengers; but with space allocated for mail, each of the four Varney planes had only four seats. The aircraft were by no means the largest available, but they were matched to the measer demand. At least, taking some liberties with the exact truth (T.W.A. had just introduced the Douglas DC-2) the Lockheeds were advertised as "America's Fastest."

The Vegas were almost the last of a generation of single-engined aircraft which could be reasonably used as airliners during the formative years of air transport in the U.S. But "reasonably" is an inexact term. Today's jet passengers would not take too kindly to being served a box lunch (from the cockpit) in a cardboard box, while squeezed not too comfortably into the narrow cabin of the Vega. Nor would today's crews be too happy over the idea of having to wear fur-lined jackets to keep warm or of having to plug cracks in the cockpit with chewing gum to keep out the drafts.

In terms of mail traffic, which in 1934 was essential for survival because it accounted for a substantial percentage of the total revenue. Varney was reputed to be a past master in devising ways of augmenting the revenue. In the former days of Varney Air Lines, under the terms of the old Kelly Act, when mail payments were made according to the weight carried, Varney staff were reported to have been sending carefully wrapped bricks

to each other along the Elko-Pasco route. Now, on the Pueblo-El Paso route, Varney promoted the air mail by designing special Christmas cards which were calculated to augment the mail receipts.

On September 1, 1934, Varney Speed Lines moved its base from Denver to El Paso, and effective September 20. curtailed the northern terminus of the line to Pueblo. with Wooming Air Service providing an immediate connection to Denver via Colorado Springs. No doubt this move was precipitated by the sluggish passenger response. Only nine people were carried during the first two weeks, and competition from both the Wyoming Air Service and the Santa Fe Railroad eliminated the need for a third carrier. At this time, a minor change appears to have been made to the airline title. "Southwestern" becoming "Southwest." Also, the slogan "The Trail of the Conquistadores," accompanied by an attractive insignia reflecting the theme, was adopted. Diminutive Varney Speed Lines may not have received a very large crumb from the postmaster general's table; but it certainly tried to make the best out of the offering,

#### Varney Air Transport

Towards the end of 1934, Walter Varney spent most of his time organizing, promoting, and trying to preserve Lineas Aéreas Occidentales (L.A.O.) which was the name under which his California-Mexico City route was operated, using the faster Lockheed Orions, developed from the Vega. He was soon to terminate the service, as has been described earlier in this chapter, but he fought



Communications in the early days left something to be desired, as shown by the station interior at Pueblo.

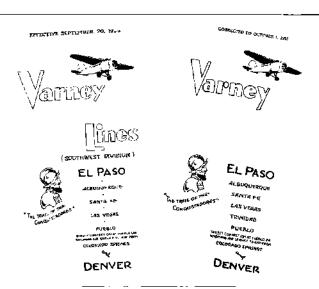


Exhibit B. Timetables showing name change from Varney Speed Lines to Varney Art Transport.

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During the next two years yelds ress was hard vigorbenium Trimelyd, Colorado, was wided as a stop sucry in 1935, as was Rebuil, New Mockey in 1935, but those charges aware note-conflict rilly in the eyes of those local communities, and extensity for clarificated to a cyment the unpact of Warray Am Transport on the commercial auxiliary confliction of the United States as a whole

More important was the realization that it assesses mentally may have looked on the map, structs from north to scall tim the impressors from north to scall tim the impressors populated areas of the IDS, such as the Booky Monnthum, were not likery, in cancer the most intelline. Accordingly, in defining of possible estilicial comment, Warray's promotion during 1925 and placed references to a 19 fm 50 m. Demost Loo

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southern section. Through service was thus reinstated from Denver to El Paso, Colorado Springs was added to the sustem, while Trinidad and Las Vegas were omitted.

Transcending such events, however, was an important change in both the management and the financial structure. On July 5, 1936, Robert F. Six had purchased a minority interest in Varney Air Transport. He paid Mueller \$90,000 for a 40 percent shareholding and also

gave him a promissory note for \$20,000 as a personal bonus. Mueller's judgment of the intrinsic worth of his property seems to have been as acute in 1996 as it had been in 1990, when he had pushed up United's offer for Varney Air Lines. Neither he nor Robert Stx were to Varney Air Lines. Neither he nor Robert Stx were to regret the bargain that had been struck; though in his later years, Walter T. Varney may have had some misgivings as to whether or not he had backed the wrong horse.



This was the new Lockheed Vega paint scheme when the company name changed to Varney Air Transport.



# Birth of the Name

1937-1941

#### Robert Six

From the time Robert Sox joined Venney Ar Transport, there was little doubt as to who was thereable oping to be the deviled force in the sainte. His strong ongs to be the deviled force in the sainte. His strong personally was to derminest Centinential Air Lines — on Venrey was soon to become — for more than four decades. Sock neigh lasted deywars, and for the majority of dhat time, every justice decision and most of the institute of the time of time of time of time of the time of time of time of time of the time of t

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Robert F. Six joined Varney Air Transport in 1936 and quickly took control. This portrait was taken in 1951.

China, where he managed to persuade the China National Air Corporation (C.N.A.C.), a Pan American associate company, to allow him to fly some of their planes on test flights.

Returning to the States in 1932, and after another year in Europe, Six then worked as a delivery truck driver for the San Francisco Chronicle, a most unlikely apprenticeship for a future airline president. At this time, a big man in the physical sense — he was six feet, four inches tall — he was still drifting, and in the lower levels of the

social structure at that. But he still retained a semblance of respectability, and led a kind of double life, alternately delivering newspapers and attending smart dinners. Curiously, Six was in San Francisco at the same time as Walter T Varney, who later gave his name to the airline which Six purchased, but who at that time was well established in the business in California (Sec Chapter I).

Through his society connections, he was introduced, early in 1936, to Thomas F. Ryan III, who had just acquired control of Hanford Airlines. Tommy Ryan introduced him to influential friends, and this was to lead to Suck approach to Louis Mueller, having, almost in passing, gotten to know Jack Frye, president of T.W.A., and Robert E. Gross, a senior executive and future president of Lockheed Aircraft. By the time Robert Six girded his loins in El Paso, Texas, after a few months settling in to assess the potential of Varney Air Transport, he was already moving in the right airline circles.

#### Varney becomes Continental

Shortly after the deal with Wooming Air Service which brought Varney Air Transport to Denver, the U.S. government passed a law which required all scheduled airlines to operate twin-engined aircraft, which also had to be equipped with two-way air-to-ground radio. This requirement was in line with the growing momentum of air transport during the mid-1930s, when the United States assumed world leadership, by a substantial margin, in the airline business. Concurrently with this ascendancy was its dominance in the manufacture of the finest airliners in the world, easily outstripping in technology the best that Europe could offer. Most of the airlines operating in the U.S. were equipped either with Douglas. DC-2s, which went into service first with T.W.A. in 1934. or with the larger DC-3s, with which American Airlines gained the edge over T.W.A. in 1936. United was rapidly reequipping with the Douglas type after an interim period during which it had launched the world's first modern



The Lockheed 12-A was selected in 1937 as Varney Air Transport's first twin-engined airliner, shown here at El Paso.



The Lockheed 14 succeeded the Lockheed 12 in 1939. This picture, with Ralph Carr, governor of Colorado, and O.R. "Ted" Haueter, Continental's vice president of operations, shows the old "Indian Head" insignia.

airliner, the Bosing 247, in 1933, but had fallen victim to a misguided policy in which the manufacturers, then part of the same United Aircraft Corporation as United, had tried to corner the market for its own associate. The technical race which followed accelerated the development of stressed-skinned, retractable-geared, serodymanically clean metal airliners, to the extent thal airlines which did not possess them were in a different, and lower, category from the industry leaders.

Varney Air Transport, along with others such as Hanford, Northwest, National, Boston-Maine, Wyoming, and National Parks, was clearly in the lower category. and the airline had little alternative but to acquire twinengined aircraft and the radio to go with them, or go out of business. Crisis point had been reached. By the summer of 1937, Varney's fleet was reduced to one Lockheed Vega, two having crashed between 1935 and 1937 at El Paso, and two at Rattlesnake Butte, Walsenburg, Colorado. Six moved with alacrity. He and Mueller mortgaged their homes as security to put together the necessary cash for the down payment of \$5,000 on each of three Lockheed Model 12 twin-engined airliners. Each of these "Baby Electras" cost \$39,500 and, with a capacity for eight passengers, could fly at 213 m.p.h. Meanwhile, a second Vega was leased from Hanford Airlines to back up the Continental fleet of one airplane.

While not as large as the DC-2s or DC-3s, the Lockheed 12 was ideal for the relatively thin traffic between Denver and El Paso, the only route that Varney had, with little prospect as yet for acquiring any others. At least the plane was a good performer, Illying about 35 m.p.h. (aster than the Douglases and Boeing 47%. As for the two way air-to-ground radio equipment, Six was able to borrow this through his friendship with Bill Patterson, head of United. The trunk airline supplied Six and Mueller with what they needed, on indefinite loan, the only collateral being an implied agreement to feed each other with connecting traffic.

With a certain amount of flair, Varney Air Transport introduced the Lockheed 12s on July 1, 1937. Simultaneously, Six changed the name of the airline to Continental Air Lines, and replaced the Conquistador image with the slogan "Fly the Old Santa Fe Trail." Continuing a tradition set two years previously, the newly-named airline promoted itself with pardonable exaggeration, advertising again the fastest and most scenic route from Denver to Los Angeles, together with similar inducements to fly from El Paso to all places in the eastern United States. Continental's modest contribution to this impressive service was almost hidden in the fine print in the fine print.

On October 31, 1937, Six moved the headquarters of Continental Air Lines to Derwer, and on February 3, 1938 he was elected president of the airline, a position which he had held in all but name since only a few months after joining the company in 1936. Six was only the 16th employee, a strong indication that Continental was still a very small link in the complex air transport web covering the United States.

During the first two years of his presidency, Six must have been a little frustrated by the limitations imposed by the rigid system under which airlines could — or to be more apt — could not expand their route systems. Unable to do anything to modify the air mail contract which designated the precise points to be served, no more, no less, as Route 29, Continental Art Lines was obliged to concentrate on improvements to the quality of its service offered to a rather restricted public.

Accordingly, on February 15, 1938, a modest increase

was made to the frequency offered between Denver and Albuquerque, over which segment there was apparently a slightly healthier demand for seats. At the same time, in an effort to promote the idea of family travel, rather than to perpetuate the convention that fighing in the United States was only for businessmen, film stars, or playboys, Continental offered to carry wives free of charge during an experimental period. The timetables, meanwhile, acquired a new look by the promotion of a traditional Rocky Mountain image through the adoption of an American Pueblo Indian head as an insignia.

#### New Regulations, New Aircraft, New Routes

The most important aeronautical event during 1938 was the passing of the Civil Aeronautics Act, signed by President Roosevelt on June 23. Vigorously promoted by Senator McCarran and Congressman Clarence Lea, the bill, which was known by their joint names, created an independent agency to be responsible for commercial aviation. The airlines would now have their own specialized agency in Washington, able to develop procedures and regulations which specifically applied to air transport, rather than to transport speerally. Most limportant, this Civil Aviation Authority (C. A. A.) was empowered to issue permanent route certificates, and for the first time, the post office, with its financial influence through the mail payments, took a secondary role.

All this followed a period of three years, from 1935 to 1938, during which the politicians argued out the policy to be taken in commercial aviation. At first President Roosevelt favored the idea of the airlines coming under the control of the Interstate Commerce Commission.



Oscar R. "Ted" Haueter, was responsible for Continental's operations from 1938 until 1968.

but he was gradually won over to the idea of a separate agency. Until the whole policy was thrashed out and decisions made, very few changes were made to the basic airline route patterns. The airlines meanwhile concentrated on improving their fleets and gradually learning their new trade.

The new route certificates, which became known as Grandfather Rights, became effective on August 22, 1938. With very few exceptions, they preserved the state sque, neuring only that full public service had been offered by the candidate airlines — the qualifying period was six months — over the route applied for, and that proper standards were being maintained. Continental's was signed on July 11, 1938, and made effective on November 20. In anticipation of opportunities ahead, bob Six arranged Continental's first public financing, through a stock offering with Lehman Brothers, amounting to a \$280,000 injection into the airline's bank balance.

ing to a scan, occupant more armine's turnic coalinets. Six's actions, though often unexpected, were methodical. He wanted new routes. To operate new routes, he would require new aircraft, hand to buy new aircraft, he would need fresh capital. Hence the new stock offering. The Civid Avistion Authority had made it clear that it would scrutinize every route application very carefully, demanding that the applicant should be fift, willing, and able" to operate the route requested. This implied that the necessary aircraft must be available, together with adequate maintenance and operating facilities to back them up.

Bob Six and Continental Air Lines must have made a good impression on all counts. One of the few routes, indeed the only route not taken up with the Grandfahrer Rights awards, was that from Pueblo to Wichita, via Garden City, Kansas. The winning bid apparently had falled to meet the C.A.A. is criteria, and Six jumped at the opportunity to provide a service whose direction was east-west, rather than north-south. True, it linked, at best, cities which could be described only as econdary — Denver-Kansas City would have been preferable — but the rules of the game in those days assue incumbent

for. Nevertheless, on July 5, 1939, after a year's litigation (suggesting at an early stage that the bureaucratic process of checks and balances could sometimes be agonizingly slow), Bob Six started his new route, designated A.M. 43 under the new system. 'Twos a small thing but his own.

carriers almost an inalienable right to monopoly or nearmonopoly authority. And all the best routes were spoken

Using the new funds, Continental bought two Lockheed 14 "Super-Electras," equipped with 10 seats, and put them on the Denver-El Peso route towards the end of 1939, thus releasing the Lockheed 12s for the new Pueblo-Wichita route which had been insugurated with the last of the Lockheed Vegas. A single Lockheed 1EE Electra had also been leased temporarily on May 5, 1939.

The year 1940 was quite eventful, by comparison with the relative stagnation of the previous few years, before the Wichita award. On May 14, a new service was added on an alternate route between Albuquerque and El Paso, serving the cities of Roswell, Hobbs, and Carlsbad, all in New Mexico, the last being the site of the Branous Caverns and a tourist attraction of considerable note. In August, three 15-seat Lockheed Lodestars were pur-



By 1939, Continental's public image had improved. This picture shows the Denver ticket office at 734 17th Street.

chased, and the Lockheed 12s sold. Though the Lockheed twin-engined airliners were not as large as their Douglas twin-engined counterparts, they were all faster, and though Continental was still as yet only a small airline, it was already demonstrating a certain elan and zest for life

Minor changes were made to the route pattern. Late in 1904, Las Vegas (N.M.) was reintroduced as a stopping point between Santa Fe and Pueblo; and La Junta, Colorado, added on the new route to Wichita. Early in 1941, Hutchinson, Kansas, was also added to the latter segment, but Trinidad and Dodge City had to await Continental service until their small grass airstrips were improved sufficiently to accommodate the Lockheed twinnergined types. For the financial year ended on June 30, 1941, Continental carried 17,232 passengers, who provided \$218,000 in revenue. Emphasizing the airline's dependence on indirect subsidy, this was less than half of the \$941,000 earned from mail payments.

By this time, Bob Six had made some drastic management changes, realizing that some of the early Varney staff were not growing in stature and ability in parallel with Continental Air Lines. Soon after he had become president of the airline in 1938, he had hired Oscar R. Haueter (always known as Ted) from T.W.A. to become his flight operations vice president. Haueter was small in stature — rather like Louis Mueller — but was large enough to stand up to Six, for all the latter's six foot-four. Haueter's ability to match Six's bluster was responsible of keeping Continental's flight groutines on an even keel and up to standard — which was, in fact, the reason why Six valued his presence.

Another key executive was Stan Shatto, hired early in 1941 from Braniff Airways, to become chief of maintenance. He came on board in April, just before the new Continental maintenance hanger was built at Denver, and was in time to supervise the orderly introduction of the fleet of Lodestars. Shatto used his experience to persuade Six to standardize on this aircraft, to simplify stores and maintenance procedures, and thus save costs. Accordingly, steps were taken to dispose of the Leichhed 14s.

Although Continental Air Lines' development during this period immediately preceding the entry of the United States into World War II was not spectacular, it was following a steady course. Based on Shatto's recommendations, and armed with additional finance, Six ordered six more Lodestars. The funds came partly from a second round of public financing, through Lehman Brothers, in March 1941, worth \$170,000; and partly from a larger sum of \$425,000 borrowed from the Chase Manhatan Bank. The money was used mainly to purchase the Lodestar fleet, but also for other purposes such as improving ground facilities.

Still seeking the ideal image with which to market his airline, which for all its imposing title still served only three western states, Bob Six changed the insignia yet age western states, Bob Six changed the insignia yet age with the still still still still still still still still "Thunderbird" design, which quickly replaced the old Indian head on planes, literature, and other promotional material. This latest choice was registered at the U.S. patent office as a "Service Mark," and was probably among the first to be given such official reconsition.

Perhaps the most important event in 1941, however, bearing in mind Continental's desperate need to break out of a geographical area which, in the foreseeable future, was unlikely to experience a traffic boom, was a route award by the Civil Aeronautics Board. On June 21, it authorized an extension of the Pueblo-Whichita route to the city of Tulsa, recognized as the nation's oil capital, and the location of the kind of wealth and travel potential needed to augment the Continental Lodestars' average leads.

The Tulsa service did not begin until December 15, by which time Pearl Harbor had come to symbolize more than just another U.S. naval base. Six and Continental must have known that aspirations for greater expansion would have to wait, in the face of the exigencies of war. And it was ironical that the airline's first stewardesses should have started flying the line on Christmas Day, 1941, with full hostess service on all routes starting on January 5, 1942. For by this time the United States was at war, and stewardess service could justifiably be regarded as an unnecessary luxury.



Exhibit C. First Continental timetable.

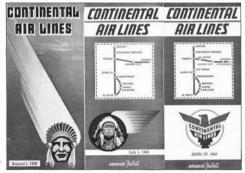


Exhibit D. Timetables showing progression of Continental logo.

# The Lockheed Family of Airplanes Lockheed 10 Lockheed 12 Lockheed 14 "Lodestar" - Lockheed 18



#### Wartime Activity 1941-1945

#### An Industry Mobilized for War

When the Japanese attacked Pearl Harbor on December 7, 1941, the United States found itself in a global was in shifted that the control transcription of the Pearl of the State of the Control transcription of the Control transport in Association (A.T.A.), representing the advisors, had foresten the possible craise, and had lead down long range plane to harmest a the trength of the air transport infastrum.

The ultimate commitment, though fortunately not proceeded with, would have demanded the termination of all stifline service, with the entire flexts mobilized as a transport division of the Air Force. Some of the airlines may have faseed this might happen, as their flexts were considerably depleted, but without exception, every airline solderably depleted, but without exception, every airline spicing, ableit with aboestring flexts and over-reduced networks.

With its vast experience in overseas flying, Pan American undertook tramendous assignments, not only in providing long-range aircraft capacity across the world's oceans, but also in building airfields throughout Africa and in Latin America. One of its greatest active/ments was to set up a subsidiary, Pan American Air Ferries, Inc. on July 24, 1941. It had insugurated scheduled service to East Africa by October, and to the Persian Gulf three weeks before Panal Harbor.

Mikile Tan American's waterine achievements were the best known because they were the most widespream, other achieve contributed in a small measure. TWA, contributed the series of the series contributed in a small measure. TWA, so that the series of the

Through a combination of geographical minfortune and lack of corporate strength or five size, many U.S. addiness, mainly these at the secondary level such as Continental, were in practice unable to make direct contributions to the ware fifter in the same way that the giants such as Pan Am and TWA were able to do. A notable exception was Northeast Artifliess, which owe is a reuse.

by some remarkable work on the northeast fringes of the North American land mass. Although, like Continental, only a tiny airline by comparison with the Uniteds and Americans, Northeast no doubt staked its claim for wartime logistics honors by its operating experience in and proximity to vital airfields on the trans-Atlantic supply route. Including Maine and Canada.

Continental was not so blessed. It was still a local service airline, located in the center of the country, with little to contribute either in aircraft fleet or flying experience where these were needed. By today's standards, it was only of commuter stature. Indeed, many of the air-lines in that category today fly more services over more routes yet do not even qualify as regionals. Nevertheless, in 1942-1945 Continental played its part honorably and contributed more than its fair share of experience and assets to the war effort.

On February 16, 1942, the Army Air Forces Materiel Command called on Continental to modify 9B -12 Fly-ing Fortresses at Denver. Such modification programs were common practice during World Wer II, as manufacturers were unable to keep up with a steady stream of alterations, improvements, and equipment substitutions demanded by the military. To have tried to incorporate these modifications, requests for which arrived at the plants almost daily, into an accelerating production line, much less install them retroactively, would at best have been counterproductive and at worst would have produced chaos. Thus, aircraft were completed to the original specifications, and the many modifications were dealt with but a series of subcontracts. The airlines, which

were already familiar with the process, and possibly more experienced in handling large aircraft than the Army itself, were ideal to undertake the responsibility.

Af first, Continental performed its tasks in an adjacent United Air Lines hangar at Denver; but by October 1, 1943, its own designated Denver Modification Center was completed. Under the direction of Stan Shatto, more than 1000 B-17s were modified there, no doubt justifying the outlay of \$5,000,000 to erect the twin \$60 × 400-foot hangars. On one occasion, the Continental team was assigned to the task of improvising the installation of long-range tanks in the bombers, whose mission weaker forcement to be particulation in the Battle of Midusu.

Subsequently, in February 1944, the Modification Center took on Boeing B-29 Super-Fortress work, converting standard aircraft into photo-reconnaissance planes. Commendable though the warrine efforts were, however, things did not always run smoothly. Not long after the B-29 contract began, labor relations became so bad that production rates were affected and a strike was threatened.

#### A Crisis of Leadership

Opportunity knocked at Six's door; although perhaps a direct assessment would be to state that an opportunity occurred and Six grasped it with both hands. In September 1942, Six had joined the Army Air Transport Command. Other than C. R. Smith of American Airlines, who had been called to the colors in April of that was to take over Ferrvins Command. Six was the only



The interior of the Lockheed Lodestar.



In August 1940, the Lockheed Lodestar was introduced to replace the older Lockheed aircraft.

airline president to wear uniform in World War II. He did some flying, but most of his work was in administration and logistics planning, including the selection of a site for an airfield which was to become Travis Air Force Base. He also organized the shrewd scheduling of aircraft being ferried to Africa via the Caribbean and the northeast coast of South America.

Six's health deteriorated just about the time the Denver Modification Center was having its labor pains, and thanks to the intervention of Continental's Flight Operations V.P. Ted Haueter, General "Hap" Arnold sent Six on a thirty-day leave to Denver to straighten things out. He accomplished this successfully, having to use his Air Force authority to overrule some of the former orders laid down by Shatto and the acting president, Terry Drinkwater

Drinkwater's career with Continental lasted six years. He joined the airline in 1938 as its legal expert, and quickly learned all the fundamentals of airline administration, to the extent that Six began to rely on his advice on many other vital matters. When Six joined the army, he called upon Drinkwater to run the airline in his absence. against the wishes of some of his old colleagues. But in fact Drinkwater performed in his role of executive vice president well enough that, by the time Six came marching home after being discharged from the Air Force on June 11. 1944, he was confronted with a "palace revolt."

Drinkwater felt that his performance in running Continental during a very difficult time entitled him to a more permanent slot at the highest level of the company administration, and campaigned to share the running of the airline with Six, who, according to the plan, would have been the chairman, with Drinkwater as president. But Bob Six saw this as a humiliating demotion for Louis Mueller, with whom in the early days he had saved Continental from a rapid demise by their faith and their investment, risking personal fortunes and property to keep the company alive. He would have none of it. The ranks divided, and within weeks, Drinkwater resigned to join American Airlines as a vice president. Stan Shatto was to join Drinkwater three years later, at Western Air Lines.

Undoubtedly, Drinkwater was entitled to feel the need for recognition, having preserved and strengthened an airline for Six to come back to, and it was unfortunate that the old adage about two being company and three a crowd was only too apt in this case. The new acting president took over in September 1942, only a few months after Continental had been directed on June 1, 1942, to surrender half of its modest fleet of Lodestars for the use of Ferry Command. This came only a few weeks after the C.A.B. had increased Continental's mail rate from 38¢ to 48.5¢ per mile. This combination, although



Stan Shatto and Ted Haueter say goodbye to the Lodestar on December 5, 1945.

fortuitous (as the decisions sprang from different government agencies) seemed cynical enough. But Drinkwater and his wartime staff must have felt even more frustrated when, on December 11 of the same year, the C.A.B. awarded Continental a route from Denver to Kansas City, when it was already desperately short of planes to service its existing routes.

Quite obviously, the airline was unable to inaugurate service. In fact, there was a provision in the certificate that service could not be started until the Army and the C.A.B. agreed that there were no objections on the grounds of national defense. With a fleet of only three Lodestars and one hastily-equipped ancient Stinson as a toppap reinforcement to carry the mail, to operate Continentals existing system became a daily triumph over adversity. On Cotober 15, 1943, Air Transport Command did release one Lodesta, after 17 months of active service duty. Less than three months late; with one hand of the government blisstully unaware of what the other hand was doing, the C.A.B. awarded Continental a new route, from Hobbs, New Mexico, to San Antonio, Texas, on December 3.

#### Progress at Last

"All dressed up and nowhere to go" could well have been Continental Air Lines' elogan as it entered the New Year in 1944. But, coincidentally with great efforts being made in the Modification Center for the war effort, the next door neighbors, the operating side of the airline, under Drinkweter, began to make good progress. On March 1, 1944, it opened services on the Kunses City route, via Topela (A.M. 60), with the Lodestars, and exactly two months later began to serve San Antonio from Hobbs, with the growing cities of Midland/Odessa, Big Spring, and San Angelo, including a direct singleplane flight between El Paso and San Antonio. Almost three years had passed since the route was first recommended by the C.A.B. Examiner on Aususs 21, 1941.

At last, Continental Air Lines was beginning to tap some markets of substance. San Antonio was at least as important a traffic hub for southern Texas as Denver was for the Rocky Mountain area, while Kansas City was a large metropolis by comparison with any other city on the whole network. Further consolidation was to follow, when, in the summer of 1945, the C.A.B. awarded the link router from El Paos to Tulka, via Wichita Talis, Lubbock and Oklahoma City, to add yet another fastarowine city of importance to the Continental map.

With a route system now set firmly astride the five southern midwestern states, Continental Air Lines could at last contemplate the acquisition of larger aircraft, to achieve equipment parity with most of the bigger airlines. On July 22, 1941, the first Douglas twin-engined type was received from the Army after it had announced that 21 military C-47s would be released, to be drawn for by lot, at the Douglas Santa Monica plant. Shatto's team converted and rejuvenated the C-47s into DC-3s in record time, and the first one went into service on December 22, exactly five months after delivery, and just in time for Christmas.

The DC-3s were certainly needed, if the statistics were any measure of Continental's prospects. For the financial



Terry Drinkwater took over the direction of Continental Airlines during World War II.

year ending June 30, 1944, 51,800 passengers were carried, compared with only 11,400 four years earlier. Mail carried annually had increased from 20,900 to 885,000 pounds during the same period. Far more significantly, for the first time in Continental's history, passenger revenue, at \$640,000 exceeded mail revenue, at \$687,000.

Although the C.A.B. had had a change of heart on the mail rate, halving it to 24.8¢ per mile, the prospects for Continental to earn its keep, without disproportionate dependence on the mail, were now good. The priority reservation system, introduced as a wartime measure, was eliminated on October 15, 1945. As more DC-3s were made available by Shatto's engineers for Haueter's operations, service frequencies were increased, and full advantage was taken of the variations permitted under the route certificates (for example, a nonstop Denver-Kansas City flight, and one via Topeka, opened on July 1, 1945). With eleven DC-3s to service a route pattern three times the length of the prewar network, the last Lockheed Lodestar was retired. Continental Air Lines, headed by Robert F. Six, now more authoritarian than ever after his bitter experience with the "palace revolt," prepared to meet the challenges of the postwar era.



On October 1, 1943, the \$5,000,000 Modification Center was opened at Denver. Some of the B-17 Flying Fortresses that were modified are parked in front.



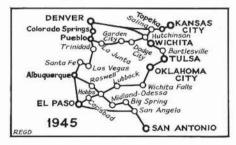
Line-up of B-29s at Continental's Denver Modification Center.



At the end of World War II, Continental was still very much a local service airline. Pictured are the station buildings at Hobbs, New Mexico.









# Post-War Frustration

#### Modest Route Changes

When, on March 5, 2966, Continental Ar Lines began DO. 3 services on the new Boatz of 2 services on the new Boatz of 2 services on the heads to Talas, with through service from EJ Paso to the latter city, it appeared that a new, expanding, route structure was developing. Oklahoma Cloy, an important stop on their outine, was also connected to Dennes, by a direct through service, on July 16, 2966, Under the system of route applications which had become standard more dure under the C.A.D. administration, Bob Sus, with route cases under the C.A.D. administration, Bob Sus, with route cases during the decade the follower.

During that entire period, however, the early rese chips of year, consequence and ded descelp. to Confirmentals network was Ploustion, as a route electrical from Sun Airwork was Ploustion, as a route electrical from Sun Airput this operation ascept, how weeks like IA. Elias-Rerisas City service added on July J. 1955, was a Instrution of the Confirment of the Plouse Air Lines, Fun Control (Confirment of the Plouse Air Lines, but this was after the 1955 margar with Plenuce Air Lines, but this was also the 1955 margar with Plenuce Air Lines, but this was also the Contributal to acquire the operating certificate of Plenk Air Lines, an applicate aware carrier. This was not yet operating. The C.A.B. also turned down, on April 5, 1961, an attempt to purchase the along Midwest Air-lines. This would have given Six access to a market in the northern midwealern states, including the important Minneapolie-Sc. Paul hab. Midwest did not survive for

long It covered operations on May 16, 2052. Other than the Houston extension, Continental had to be content with very measure face from the C.A.R.'s table. The cities of Lawton and Fort Sill were added to the El Paso-Tulsa rouse on April 16, 1948; Socorro, Truth or Consequences (formerly Hot Springs), Los Cruces, and Raton were added to the Denver-El Paso roote; and Manhattan, Kanase, was inserted as a stop on the Denver Kansas City route on April 6, 2953. But such additions to the United States airline structure were bardly noticed beyond the immediate vicinity of the communities themselves, Indeed, their tenure as permanent points on a trunk airline network was precarious. All except Lawton, Fort Sill, and Raton were deleted on September 1, 1954, when Alamassedo Air Force Base - calculated to generate the special traffic which this important military center, with its key role in the nation's rocket experimental program - une sub-

Altogether, therefore, Continenta's was a small operation during the early postwar years. The combined total population of all the cities served was about 3,700,000,



The DC-3 was introduced on December 22, 1944, and was Continental's standard airliner during the early postwar years.

less than that of either Chicago or Los Angeles. By force of regulated circumstance rather than by choice, it was compelled to mark time, hoping for one of the prima donnas perhaps to falter.

During this period of frustration, Bob Six and his capable team of dedicated executives set about improving efficiency and profitability. Continental streamlined its procedures, and achieved technical parity with the larger atrines which continued to be favored by the C.A.B. in the matter of new route awards.

#### From DC-3 to Convair-Liner

Continental ended the year 1946 with a fleet of 14 Continental ended the year 1946 with a fleet of 14 Contest) of which one was held in reserve and was used for training. For the financial year ending on June 3 1946, Continental carried 167,000 passengers, earning \$3,245,000 from that source. During the same period it acrired 486 tons of mail, earning \$637,000, actually less than in three of the wartime years. Clearly Six's atrine was no longer simply a mail carrier carrier, gracting additional passenger accommodation only as a bonus source of revenue.

One other item in the statistics was no less significant. Just as for air express, a separate revenue item accounted for air freight, first carried by Continental on January 1, 1946. Without the pressure of competition, and the need to carry freight, it could theoretically have served its network with the trusty DC-3s. But because of the steady traffic growth, and even though the route system was stabilized. Continental was forced for ungrade its fleet.

Bob Six had to cut his coat according to the cloth. His lexbibility of choice in new equipment was more limited than that of the giant airlines. The disparity of size in terms of route distances and route densities between the so-called Big Four and the smaller trunk airlines was memense. While United and American were putting fourengined DC.4s into service, and hastily preparing for setting a fast pace with Lockheed Constellations, Continental had to be content with augmenting its DC-3 fleet with pressurized twins. Four-engined equipment was out of the sussition.

Six and his team evaluated the new Martin 2-0.2 and the Conwair 2-0.0, both 40-seat pressurized arithrers of modern design, incorporating postwar technical advances such as nose-wheel gear and radar equipment. The choice was the Convair 240, of which five were ordered on August 17, 1946. Continental did not regret its decision as the Martin ran into structural problems and had to be redesigned, while the Convair-Liner was developed into several versions, to the extent that many are still fiverated by the control of the conversion of the conversion of the control of the conversion o



This North American B-25, purchased in 1948, was used for training, research, and executive travel.

haul piston-engined airliner, becoming standard equipment as the successor to (but certainly not the complete replacement of) the DC.3 all over the world.

Some idea of the aforementioned disparity at this time between the size of Continental and the big trunk airlines can be deduced from the bare facts: Continental had five Convair 240s as its front-line fleet during the late 1940s, later substituting them with improved versions of the same basic type, but never owning more than seven. During the same period, American Airlines ordered — in one straight shot — 75 Convair 240s, as its second line equipment.

#### Technical Excellence

And so Continental set about the task of making the set of what it that: a route network which would be reparted by the major carriers as a collection of mere feeder lines, with an aircraft feeter to match. But the small airline could not be faulted on performance, quality of service, or technical know-how, When the Convair 240 was introduced on December 15, 1948, almost four months had passed since the first aircraft was delivered on July 23. There was a good reason for this out-of-character delay.

The previous year, Robert Six had once again changed the airline image, adopting the logan "The Blue Skyway" and adorning his aircraft appropriately as Skystreamers. The colorful promotion was backed up the following year by ensuring that Continentals CV 240s were the best in the business. The aircrew converted from DC-3s in a rigorous training schedule which recognized the special hazards of a route system which involved difficult terrain and weather. More importantly, when service began with the Convairs in December — hardly the ideal month for crews to acquire line-flying experience with a new aircraft fleet — Continental was able to claim that it was the first airline in the United States, if not the

world, to install radar equipment on every flight. For the passengers, the tricycle landing gear eliminated the uphill climb to the front seats when boarding the aircraft.

Consolidating upon this high standard of technical efficiency, on October 15, 1950, Continental became the first airline to be designated by the C.A.B. as utilizing VOR (variable omni-range) direction-finding equipment over its entire network.

#### The First Coach Fares

On July 15, 1949, Continental introduced Skycoach service, in an attempt to expand its passenger traffic by a promotional fare structure aimed to penetrate lower levels of the discretionary income pyramid. While the \$22.10 Denver-Kansas City fare was not the first coach fare to be offered in the U.S.—this honor went to another innovative airline, Capital — Six was among the first to recognize its potential and to make a bold experiment on an intercity route of some importance. At the same time, was giving notice to the Big Four (including TWA, which regarded Kansas City as its home field, and United, which took the same view about Denvery that one of the lesser lights in the U.S. airline industry could allow used as brishly as the big ones.

While Continental was deservedly respected by its peers as a fine airline in spite of its junior stature, the technical and promotional flair was small consolation for the repeated rejections of attempts to expand. Amitons to reach Chicago in the eastward direction, or California in the west had been thwarted by the C.A.B. during 1937-1948. Its efforts to grow by purchasing other airlines had equally been frustrated from the same allipowerful government agency. But the high technical performance, necessarily supported by superb maintenance standards, were to serve Continental well in the years to come when its persistence was finally rewarded and a chance to spread its winsp cocurred.



The pressurized Convair 240 enabled Continental to break out of the operational and marketing limitations of the DC-3. It went into service on December 15, 1948.



## **Breaking Out**

1951-1954

#### A Changing Operating Environment

The postware pattern of the United States airline netsoris, was reasonably integrated, providing the public with services throughout the country, both at first lever (turnal) and secondary (local service) levels. There were direct services between all the main cities, in almost every combination. There were all less two competitors on all the denseat routes to ensure that some aspects of of service frequency and amenation.

of service inquiency and sharefules. Seen were exceptions in the general rate. Wheller Beauth registed grant plan of the early 1956s had been adhered to lating closely, the early 1956s had been adhered to lating closely, the early 1956s had been adhered to lating closely, the early 1956s had been adhered to lating closely, 1956s with frequent services, using first like explainment. 1956s with frequent services, using first like explainment, 1956s with frequent services, using first like explainment of the Livined States, exhibit the gradually changing population of the Livined States, calculately appeared propriet in the the Livined States, calculately appeared propriet for the Livined States, value of the Livined States, and Taxes, the first profitness, with Seattle as its nucleus, and Taxes, which Dalla Feel Whell and Bassators in public grounds as fic. Florida was booming as a vocation and retirement area. These and other regions created new problems for the airlines, because the rigidly worded C.A.B. route certificates did not permit the flexibility to change quickly.

energial within a chenging nation.

As a rule, the interrity intalle demand thus neglected as a rule, the interrity intalle demand of the neglected propagate in the control of the propagate interrity intervent to confident in the failures of energy operations of the confident intervent to confident in the failures of intervent of confident in the failures of intervent of the confident intervent interven

#### A Rose by Any Other Name

In a previous era, when the United States had spawned hundreds of reforads, large, medium, and small, the public had encountered many situations in which the geographical confirms of a raincad's service pattern were a determent to convenient travel. The prime example of this was the absence of a single transcond-



Bob Six and Louis Mueller chat over old times in 1952.

nental railroad, so that a journey from New York to Los Angeles involved the use of at least two, and sometimes more companies. Often the change of trains was irritating, as the different railroads did not even use the same terminal at, for example, Chicago or St. Louis; but this was often overcome by the device of permitting running power by one company over the tracks of another. This allowed through train service, or at least through coaches, over many route combinations.

The airlines thus had a precedent on which to base possible plans for cooperation, in the knowledge also that they served the same airports in each city. And airhough there was no coordinated plan governing the whole industry, a system of interchange routes evolved between 1948 and 1955 which, in the main, proved to be of great benefit to the traveling public, because their need was apparent and real. Indeed, when they were gradually discontinued during the late 1950s and early 1960s, this was because the Civil Aeronautics Board finally made belated route awards to individual airlines to fly the identical routes.

Continental recognized its opportunity, situated as it was athwart the southern Midwest, and thus in a strategic position to make some mutually advantageous deals with other airlines which were seeking to fill some of the more obvious gaps in the C.A.B. route network. Fortuitously, there was a glimmer of hope for Bob Six's long-standing ambition: to claim a portion of the eastwest traffic across the U.S. In this he was aided by the growing wealth and economic strength of Texas. Service to that state by other airlines was good — provided the destination was Dallas, route hub of American, and Braniff's base. Equally, from Seattle, connections to the southern half of the U.S. were mainly via Minneapolis or Chicago, with United and Northwest in control. Accordingly, by a series of astute agreements, and with the approval of the Civil Aeronautics Board, Continental Air Lines suddenly broke out of the confines of the five southern midwestern states.

In the spring of 1951, Continental became party to a three-way agreement over an important segment of one of the great trunk routes that Walter Brown never dealt with satisfactorily in the early 1903s: the Southern Transcontinental. The city of Houston, mushrooming as a metropolis and one of the worlds great oil centers, had risen considerably in importance since Brown's day; yet airline service was worldly inadequate. By linking up with American Airlines and Braniff, Continental was now able to participate in an attempt to rectify this shortcoming. A new intercity trunk route emerged, from the great of California cities of Los Angelés and San Francisco, via El Paso and San Antonio, to Houston. To American, solidly established as one of the three giant transcontinental airlines, this was a small addition to its existing strength; to Braniff, with its Latin American international routes and its domestic web throughout middle America, the more than a local service carrier, it was like breaking out of a straightfacket.

#### Long Range Routes at Last

On February 8, 1951, the C.A.B. handed down its decision in the Southern Service to the West case, and a few months late, exploratory flights were made by the three airlines, whose initials were R-B.C. an abbreviation by which the interchange service was briefly known. American Airlines, which at first supplied the Douglas DC-68 four-engined aircraft, was responsible for the portion of the routes from California, serving San Francisco, Los Angeles, and San Diego, as well as Procenix as an en route stop. East of El Paso, Continental took over on a norstop segment to San Antonio. Braniff supplied the seament from San Antonio to Houston.

Braniff, however, became dissenchanted with its minority share of the three way agreement, and withdrew, even surrendering its certificated rights over the San Antonio-Houston route in favor of Continental, When the C. A. B. approved this action on July 18, 1951, and the C. A. B. approved this action on July 18, 1951, and Continental opened service on July 26, on the El Paso-Houston route in its own right, as well as the American interchange, this was possibly the most important new route during its history thus far Through service to Los Anoeles beaan on that date, and to San Francisco on

November 2, both given the title Arrow.

No less than twelve of the U.S. domestic trunk airlines participated in interchange routes. Continental was by no means the first [TWA and Delta joined hands on June 1, 1948). But only one other airline, Delta, was involved with more domestic interchange services than Continental, and no other airline evolved a framework in which the route mileage over the routes of its partners was as long as its own certificated mileage.

On February 1, 1952, Continental reached the Mississippi River, at St. Louis, through an interchange service with Mid-Continent Air Lines. But this was a hollow victory. Only a few months previously, on October 23. 1951, the C.A.B. had rejected what appeared to be a natural merger between the two airlines. The two route networks overlapped and could easily have been consolidated. Both airlines' DC-3s and Convair 240s could have been integrated with maximum efficiency. Continental would have been the surviving airline, and Six would have reached the two extreme ends of the Mississippi at Minneapolis and New Orleans, But on August 16, 1952, less than a year after rejecting Continental, the C.A.B. permitted Braniff to acquire Mid-Continent, after Braniff had filed for the merger on January 24 - one week before the Denver-St. Louis interchange service began. Thus, by a touch of irony, Six was now in association with an airline that had pulled the rug from under him in one of his attempts to expand.

The third interchange service began on September 15, 1953, between Continental and United Air Lines, for



The Convair 340, the "stretched" version of the CV240, went into service early in 1953.

service between Seattle and Portland, in the Northwest, and Tulsa, with Continental responsible for the Denver-Tulsa portion of the route. Once again, Six was smelling the sea air of the Pacific, albeit through the agency of another airline. Nevertheless, there was something to show for it. The near route maps which adorned all the Continental timetables, and much of its publicity material during this period, had to be redrawn. The area covered, hithertor restricted to the five southern midwestern states, was proudly replaced by the entire region west of the Mssissippi, or about two-thirds of the U.S.

#### Upgrading the Equipment

As mentioned above, when Continental's first interchange route, with American Airlines, started to the West Coast on July 27, 1951, the aircraft used were the latter's Douglas DC-6B's, considered by many authorities today to have been the best four piston-engined propeller commercial airliners ever built. The DC-6B may not have been the fastest - although its performance was completely competitive; or the largest - as later Douglas and Lockheed aircraft carried more people; but it was very reliable, and regarded by many of its users as a thoroughbred. For the San Francisco/Los Angeles-Houston interchange, it was ideal, Determined that his airline should never be under obligation to a larger company, and certainly to ensure that, at any bargaining table, American would not be able to claim an advantage, Robert Six ordered two 60-seat DC-6B's on October 10, 1951, less than three months after the launching of the interchange service.

These were put into service in 1953, and were retained sculaively for the California-Houston route. Neither Continental's basic network, nor the second interchange route with Mid-Continent/Branifit to St. Louis, justified four-engined types. The Corvoir-Liners were perfectly four-engined types. The Corvoir-Liners were perfectly the sequents from, few of which could truthfully by described as more than short haul. Later, when the Continental-United interchange began, Six leased two Douglas DC-6s (the earlier version, ancestor of the DC-68) from United.

In another equipment decision, the older Convair 240s were replaced by the improved Convair 340s, and the fleet of these latter 44-seaters increased from five to seven. The new Convairs were ordered on February 28, 1951, and went into service early in 1951.

At the other end of the equipment scale, the trusty Douglas DC-3, survivor of the prewar era, soldiered on. It rendered sterling service to all the smaller stations on that part of Continentals network where either the traffic was inadequate to fill even the Convairs, or where the airfields could not accept heavier planes with higher wheel loadings. In the 1950s, some of Continental's cities may not have boasted first-class airfields; but they were served by an airline which ranked as a trunk carrier, and the city fathers did not complain too much about the service. To summarize, by the end of 1954, Continental's fleet consisted of two Douglas DC-68s, two DC-6s (leased), seven Convair 340s, one Convair 240 (leased), and nine DC-3 and

#### The End of Interchange

In general, the interchange device served the airlines well for more than a decade. Of the thirteen combination routes granted by the C.A.B. between 1948 and 1955, only two - the last two in fact - failed to last more than three years; and of the remaining eleven, none was terminated in less than seven years, Interchange may therefore fairly be judged as a successful experiment in route flexibility, and an encouraging sign that the Civil Aeronautics Board was not wholly negative in its approach to the industry under its jurisdiction. In the case of Continental, its interchange access to California, started in 1951 via American, ended only on June 11, 1961, when the far-reaching Southern Transcontinental route awards made the interchange immediately redundant. Similarly, the association with United to the Northwest, started in 1953, ended only on July 1, 1967, when Braniff was granted a route to Seattle in 1966.

The more localized interchange between Continental and Braniff, from Denver to St. Louis, first started in 1952, also continued until June 13, 1967, (coincidentally within two weeks of route suspension to the Northwest)



The DC-6B at Seattle-Tacoma on the Continental-United Interchange route.

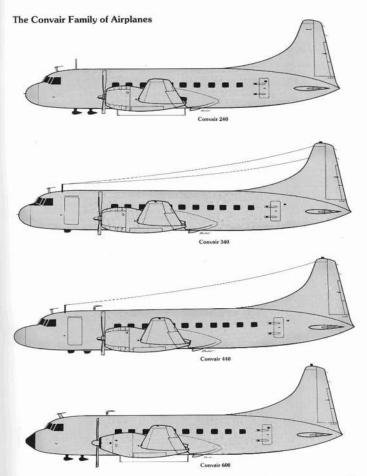
when Frontier Airlines was granted nonstop route authority from its Denver hub to both Kansas City and St. Louis. Times had certainly changed, not to mention attitudes, in the corridors of power in Washington, D.C. Frontier was a local service a trinine, established in 1948 to operate local service to small communities, in fulfillment of a prasseworthy campaign in Congress after World War II to bring the benefits of commercial aviation to every small city in the U.S. The locals, as they were at first called (they later aspired to more imposing titles) were roganized to provide such service as feeder limes to the trunk networks, using small aircraft. Now, Frontier, ostensibly a feeder airline, was given a route which had

previously been denied to a trunk airline, Continental, which had been forced to operate only by the interchange device.

By this time, however, such a decision, which in the 1950s would have brought Robert Six hot-foot to Washington armed with lawyers, documentation, and expletives, caused hardly a ripple at Continental's headquarters, now located in Los Angeles. By 1967, Continental had at last gained considerable ground on all the three fronts on which it wished to expand; merger negotiations, beneficial route awards, and front-line equipment. These were of such far-reaching consequence that each of the three usidises a separate chapter in this book.

Interchange Routes, 1948-1952. Continental's first chance to break away from its local service environment came with the opportunity to interchange services with other airlines.







# The Pioneer Merger

1955

#### Creating a Second Level

After World Wer II, the articles of the United States were almost unrecognizable from the same companies which had game to war in December 1941. At that time, the 15 certificated carriers operated 152 arterits, of which 250 were 21 seat 10°C.5s., the remainder being smaller Lockheed beans, O.C.S., and Beaulig 918. By 1956, the Cockheed beans, O.C.S., and Beaulig 918. By 1956, the touched part of the collection of the control of the Cockhed Cockhed Control of the Cockhed Cockhed

Quite clearly, the trush sittines had tindespose a mentionerploxis. The necessed arranged trust of the interested properties with the introduction of the mentionerploxis. The properties of the introduction of court large public. In question of court for the court court for t

This led to a dilemma. Although all the airlines were happy to concentrate their energies and imagination to provide the most competitive service over the businest ... and therefore the most lucrative - routes, they tended to neglect the more sparsely patronized flights and services. Basic economics worked against the short rootes to small cities. The costs were higher, because of the fundamental shape of the operating cost curve, rising alanningly at the short-range end of the graph; while resenues were occurred largely by formulas which did not take this into account, and which amounted closely to a pro rata mileage rate. Furthermore, because the traffic potential between the smaller cities was correspondingly smaller than that between the large urban centers, it followed that these routes were best served by smaller aircraft

Unfortunately, this too weighed against the basic laws of entime operating economics. Large accreal, with the same standards of feedmanding, are invasibly changer to operate on a suit cost basis than arrand ones. Although the trush airlines often fried to congressive by explaining the trush airlines often fried to congressive by replacing the trush airlines often fried to congressive by replacing time honored DC3 flights with depreciated Convier. Linears or Martin twins, they were seldons able to do so proportiolly, Commendially, all the trush airlines had their sights as in on the day when they could announce that they no longer depredicted upon indirect suitable, through mild no longer depredicted upon indirect suitable, through mild.

payments, or — even more pressing — direct subsidy granted and paid through the agency of the C.A.B., by whom many left they were being patronized to the point of humiliation. An airline executive was unable to make strong demands for extended routes or improved operating authority if the C.A.B. could blandly point out that he was dependent upon government largesse, at the expense of the taxpayer, to break even on the routes he had.

Happily, both sides were able to make a reasonable accommodation in this matter, and much recidit must go to the C.A.B. for recognizing the need to establish a new stratum of airline service. By authorizing airlines whose specific assigned responsibility would be to provide service to the smaller cities, the trunk airlines could be relieved of localized areas of financial embarrassment. The C.A.B., for its part, conscious of its responsibilities to the taxpayers, could isolate those areas, cities, and companies for whom a case for subsidy could be made. At the same time it could relieve the trunk airlines from ponderous accounting procedures designed to identify subsidy-eligible routes; and help them to avoid accusations of internal cross-subsidization, switching public monies to purposes for which they were not intended.

#### The First Feeder Airline

All this change did not come easily; quite the reverse. The first airline to try to establish feeder service was able to do so only for an experimental period. Even before World War II, Essair, of Houston, had been authorized to beain passenger and express service from that city to Amarillo, via Abilene, in January 1939. But Braniff Airways, which considered itself at that time to be the only airline with any rights in Texas, protested to the C.A.B. on the grounds that Essair was intruding upon its sphere of influence as laid down by the "Grandfather Rights" implied by its certificate. And as a result, Essair's schemes were postponed.

On November 5, 1943, however, after an appeal, the board selected Essair to operate the service. The airline had been able to demonstrate that it could provide a service better adapted to local needs, with flight times related to passenger requirements, rather than to the intricacies of scheduling convenience. A trunk carrier, on the other hand, might feel inclined to fulfill its legal obligation under the terms of its route certificate by inserting the obligatory frequencies at the smaller stations only at inconvenient times, when the aircraft could be released from peak hour service on the best routes.

And so a new category of airline was born, and Essair was the first of the new breed. Under its new feeder airline classification, established by the C.A.B. on July 11, 1944, Essair began service as Essair Lines, with full official blessing, on August 1, 1945, over its original route from Houston to Amarillo, with four stops, using a fleet of three 12-seat Lockheed Lio Blectras. Or June 17, 1946, Essair changed its name to Pioneer Air Lines, and quickly developed an intra-lexas network, including an important segment from Houston to Abilene via Dallas and Fort Worth.

It soon introduced the ubiquitous DC-3, of which more than 200 were eventually to see service with the local service airlines, as the feeder airlines were renamed.



Pioneer's main equipment was the trusty DC-3.



Exhibit E. Timetables of Essair which became Pioneer which then merged with Continental.

Many of the other airlines in the same category had used smaller types to inaugurate service, but found that the popularity of feeder routes generally justified the use of the Douglas twin, which showed no signs of senility. In certain areas, however, some of the locals found that even larger and more modern aircraft were needed to cope with the traffic demand, and also that frequent and demanding travelers looked askance at the veteran DC-3. Such an area, in keeping with its characteristic image, was Texas, where Pioneer had already started "commuter specials."

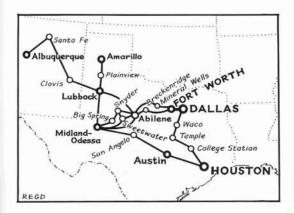
Pioneer, in fact, became the first of all the local service airlines to try to introduce postwar-designed commercial aircraft. In June 1952, it purchased nine 36-seat Martin 2-0-2s from Northwest Airlines, having sold its fleet of eleven DC-3s to the United States Air Force at a profit of \$841,000. The Martin was an unpressurized, but otherwise modern twin, designed as a direct competitor to the Convair 240. Its first flight had taken place on November 22, 1946, four months before Convair, but structural problems had been the cause of a Northwest accident in 1948. They were withdrawn from service, and returned after strengthening and re-engining, returning as 2-0-2A's (with TWA) in 1950.

But this was not the reason why Pioneer had to go back to the DC-3. It had used the profit made on the DC-3/Martin deal to offset losses on its mail subsidies. Unfortunately, the C.A.B. took the view that the action had been highly irregular, and inconsistent with the regulations governing subsidy. Pioneer was unable to demonstrate conclusively that the Martins were more economical to operate than the DC-3s (a problem not uncommon with other aircraft types even today); and reverted to operation of the 21-seaters in March 1932.

#### The Mini-Merger

When Continental Air Lines signed a merger agreement with Ploneer on December 10, 1953, the C.A.B. acted rather speedily and managed to approve it within a year, on December 7, 1954, to be exact. During the entire era of Civil Aeronautics Board regulation, all airline mergers had to be approved to ensure that such moves were, to quote the wording of the agency's charter, "in the public convenience and necessity." Compared with some others (such as Eastern-Colonial, Braniff-Mid-Continent, or Delta-Northeash) however, the Continental-Pioneer amalgamation was not one calculated to have severe repercussions on the rest of the industry.

During its ten years of active life, Pioneer had expanded modestly on its original Houston-Abilene-Amarillo route,



Pioneer Airlines, 1955. The apthy-named Pioneer gave Continental access to Dallas and Albuquerque, and reinforced its Texas network.

designated by A.M.64. By 1953, it was serving Dallas/ Fort Worth, Austin, and other cities in western Texas, in the new oil region around Midland, Odessa, and Lubbock. It had also expanded further westward into New Mexico as far as Albuquerque, via Clovis (an historical transcontinental airline stop on the TWA route) and Santa Fe.

The main effect of Continentals acquisition of the feeder airline, therefore, was to consolidate its position in the Lone Star State. It now served every Texas city of more than 100,000 population, together with most of those whose growth potential would put them in that size bracket within a decade or so. With C.A.B. doubts concerning Pioneer's ability to cope with larger aircraft now irrelevant. Continental ordered a fleet of Convair 440

Metropolitans, a further development of the successful Convair-Liner family, so as to show Texas that it was there to stay.

As an incidental item in the merger, the ninth name on the list of Pioneer officers, the vice president of traffic and sales, was Harding Lawrence. Within a few years, he was to become Robert Six's right hand man; and within another few years he was to lead Six's life-long rival airline, Braniff. Lawrence's chequered and ambitious leadership was to make Braniff one of the largest and most profitable of all U.S. airlines by 1980. Paradoxically, Robert Six stayed with Continental long enough to see his airline survive while Braniff abruptly perished two years afterwards because of Lawrence's too-rapid expansion.



The CV-440 was Convair's final development of the successful twin-engined airliner. Continental introduced it on April 1, 1956.



### 7

## The Denver Case

1955-1957

#### Improving the National Air Routes

As long as the Civil Aerosautica Board was in compet of the ration's a travels; it was constantly belong to of the ration's a travels; it was constantly belong to review the relative merits of applications for additional sequences, marily between important cities, as the sinlens strived to aspirent their route networks. As in many other heldards, most compensive sevened to possible through growth. Declare, or even stagnature of travels; it was firmly believed, wound upof disaster and investable demise. At best this would be by absorption by another carrier, with hearts "kerupp" class opportunity.

Examination of published growth statistics shows that the artimas were quite successful in enlarging their netsoria. Certainly traffic density on existing routes in creased, thus densading larger aircraft when the later frequency patterns had been achieved; but substantial increases in passenger miles or passenger bosedings were often accounted for simply by route extrassions and

additions.

While encouraging competition within the harsework or its defined mandate, the Cold Aeronautics Board was acutely aware of the inharrent dangers of excessive indulators in this dispersion. Defend more commercial

and outside the agency, held that the main benefits of competition, at least for the paying justereget, could be achieved with only two rivol softens on a route. Three or more could normally be justified only when the trafficwas extremely heavy — the definition wared with distance — or other considerations were involved, such as connection service.

The legalation which put this policy into effort uses complex. Afterns expelled or changes to their roductorenfoldates by a strictly laid down procedure, in which the assetting of the precise wording of the outgrain certificate assetting the precise wording of the outgrain certificate mixture can be assetted to the contract of the contraction of the contract of the contract of the mixture can be assetted to the contract of the White to care. When submitting was forthermore up on Agrid White to care. When submitting was forthermore up on Agrid that price has the contract of the contract of the White to care. When submitted was the state of Kansans was some of the event, "Smillarly, when Contributed unperdictate-vice at Big Spring, Bassa, on Powerfee 1, 1903.

But there were occasions when the applications for new coutes had such wide-spread implications that the C.A.B. Sound itself in the role of both judge and jury in complicated inight on where there were often half a function shiesiffs and sountriess as more defendant. attempts to match deeds with their self-imposed philosophy of Pexpand or die." airlines would apply to the C.A.B. for new roottes. But because the system was already strictly particilled out on a spherescoft influence basis, such appraisons would be viewed by the incumbered with emotions working from mild alertin to putight indignation.

An outstanding example was when, immediately foltowing World War II, the C.A.B., with firm support from Plesident IV imma, broke Pan American's virtual monapoly of overseas router by allowing a number of domestic airlings to fly the Atlantic and the Paofic, and to serve Latin American, in computitions with Pan Am. This was wholy in the sport of line enterprise, but the C.A.B. ensured that the computition did not better a best for all and wisely limited the number of points storts on each individual router.

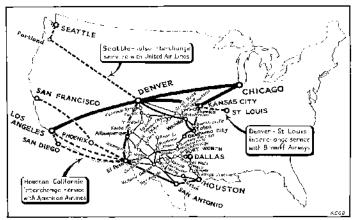
The same happened within the U.S., as almost all the sillines sought to expand during the contour years, and the C.A.S. was taked with a broadleing multitude of claims, and counter claims, all supported by republy one vicinity exclusive and resumment. Under the formative procedure, an atrine would epoly to the C.A.B. for a new routs, and plan, and C.A.B. would have to publish the news. Normally, other arithmethad 90 days in which to file sendan applications, or the assumbers's could object. The C.A.B. would have a sample and the second and accommendations to the board, based on an impartial review of the conditing claims. The fine-mass board would not always a court be recommendations sufficiently assumed the conditions of the procommendations sufficiently accommendations sufficiently accommendations without modification.

entirely, finding other considerations which were outside the examiner's field of interest. Intereign mute cases, the provident of the United States had to give his approvidwhich he necasionally withheld by political party revenus, as well as for considerations of the national interes, including security.

All finis was a longeroum put offer, An Western Airlines can teathly, a case would drig on for gears. The California currier based at one end of the rich California Itswell washion models, had to want test years for permission to operate to Honolulu. The paper work in such cases was enormous. The dossiers on the Peed's Route Case, the course deliber of the 1960s, could have filled a registed frield cat.

Continental attempts to expand in route network by the C.A.3, moved on held for the first beauty-sers affiliate existence, here friends and, to put in tailify. The C.A.B seemed for regard Confinental more as a local service adding than a truck, gradingly permitting it to operate within the southern microsestem states, with histosac City and Houston the largest cities served. Potent Six had been also the expend further usity by the device of interchange course, in which we was normal, pergented as the junior partner; and by a merger with a germine feeder affirm, monity to obte an access to Dales.

In 1962, however, in set another attempt to gain respectability among his peers, Rob Swimada on inflatious application in the Demot Service Case. This was one of the most important route cases with which the C.A.B. had ever had to contend, and one which was to make sweeping-barrases to the competitive balance on the



The Beaver Care, 1905. In one of the Civil Aeronautics Board's coost for reaching decisions, Continental gained divest access to the second and riking largest cities in the United States.



The Douglas DC-7B, one of the last of the great piston-engined airliners, opened "Gold Carpet" service on the Chicago-Los Angeles route on April 28, 1957.

transcontinental air route. While the Big Three trunk airlines, United, American, and TWA, were the main litigants, other airlines aspired for a piece of the Denver cake. And at last, Bob Six and Continental Air Lines did not return from Washington empty-handed, even though they had to wait a few years for the result.

#### The Denver Service Case

On November 14, 1955, the Civil Aeronautics Board finally made its decision in the Denver Service Case. This was a praiseworthy solution to a problem which had long needed attention. The "Grandfather Rights" held by the three main transcontinental airlines had originally confirmed that the companies which had traditionally pioneered and developed service over certain set routes were entitled to recognize such routes (and even service to individual cities) as perpetually allocated spheres of influence. But as time went on, and traffic increased to levels which had been beyond the imagination of the architects of the original route structure, the need for more competitive service between almost all main city pairs at each end of the coast-to-coast route was accepted as essential by the regulators and the regulated alike.

The main result of the awards was that the three geographically separated trunk routes lost their clear-cut simplicity and semi-monopoly status. Hitherto, for example, United had gained the hon's share of the traffic to San Francisco from the entire eastern half of the U.S. because it was the only one with a direct route. Also it was the only one of the three serving Denver, recognized as the most important hub between the Mississippi and the Pacific. Now, with the C.A.B.'s Denver decision, TWA was given rights into Denver, and in exchange, United was allowed access to Kansas City. American was given a direct route from Chicago to San Francisco, so that one result of the Denver award was that all three airlines were now able to offer direct or almost direct

service from New York to both San Francisco and Los Angeles. The new route structure came into effect on January 13, 1956.

Two airlines, other than the Big Three, came out well from the Denver decision. Western Airlines found itself with a direct San Francisco-Denver route, at last short-cutting a meander across the northern states. But more surprising, Continental Air Lines was granted a route from Chicago to Los Angeles, via Kansas City and Denver, with nonstop authority between all city pairs, including Chicago-Los Angeles, neither end of which route it had ever served before. Although its right to participate in this momentous route award was challenged, it was upheld by the U.S. Court of Appeals on January 17, 1957, by which time Robert Six had the bit between his teeth, and nothing short of an atom bomb could have stopped him.

To describe the Chicago-Denver route as "manna from heaven" for Continental would be an understatement. Until the decision, the largest point served by the airline was Houston, which at that time ranked as the 14th most populated city of the United States. Chicago and Los Angeles were both second only to New York, and the metropolitan areas of each one of these two conurbations housed more people, with far greater spending power, than the whole of Continental's existing network thus far.

Robert Six lost no time in preparing his airline for the surge in traffic which was bound to occur, following this red-letter day in his airline's history. In a sense, the C.A.B.'s award was a tribute to the respect that he had by now acquired throughout the industry for initiative, drive, and the ability to get things done. Although not spelled out in precise terms, the "able" portion of the phrase "fit, willing, and able," applied by the authorities in spirit if not in word to an airline aspiring for greater things, was interpreted as the possession of a fleet of aircraft able to do the job. Not by the wildest combination of scheduling, marketing, or management could Continental's twin-engined Convair 440s have operated the Los Angeles-Chicago route. But quite obviously, the C.A.B. no longer regarded Continental as a local service airline masquerading as a trunk.

#### Last of the Great Piston-Engined Airliners

Hardly had the airline world digested the impact of the Derwer Service Case when, in December 1955, in an unprecedented burst of procurement backed by the substantial issues of new stock, Continental ordered four 118-east Boeing 707 jet airliners, fifteen 56-seat Vickers Viscount 810-D series four-engined turboprops, and five 96-seat Douglas DC-785. The total cost of the 24 planes was \$64,000,000. To put this in perspective, the value of the existing 1955 fleet was placed at about \$11,000,000.

There was a snag, in that the turboprops could not be delivered from England until 1958 and the jets could not arrive before 1959. Thus the DC-7B's, more readily available, had to be purchased as an interim measure. The aircraft was a further development of the famous fourengined Douglas family, its fuselage lengthened from the DC-6B to accommodate more passengers, and its engines changed from the 6B's Pratt & Whitney R-2800s to new Wright turbo-compound R-3350s. These powerplants gave the DC-7 series enough additional power to offer more payload, higher speed, and longer range than the DC-6B. It had been introduced originally by American Airlines as a nonstop transcontinental airliner to match TWA's Super Constellation. The DC-7B was a slightly improved version of the DC-7 with higher all-up weight, and Continental was one of only four airlines to order this version.

The Douglas DC-7B, almost the last of a line of great piston-engined planes, had the honor of inaugurating Continental's Los Angeles-Chicago service on April 28, 1957, both nonstop and via Denver. The Kansas City alternative routing was added on July 8, It was promoted as the Gold Carpet Service, and the service also offered the Club Coach, a novel experiment in which, for the first time, an airline offered a selection of first-class amenities at coach-class fares. Not for the first time, Robert Six and his Continental team introduced a feature which was regarded as a risky innovation at the time, but which was to become standard practice many years later.

#### Turboprop Flirtation

One of the most fascinating airline merger rumors going the rounds toward the end of 1957, was that Robert Six of Continental was talking to James H. "Slim" Carmichael of Capital Airlines. The whole idea seemed to have possibilities of such magnitude that the rumor was widely aired and speculated upon in the aviation press. Capital was the fifth largest airline in the United States (or in the western world, for that matter), in terms of passengers carried, and sixth in terms of passengermiles. The outgrowth of a prewar merger of airlines operating between the Great Lakes and East Coast points, it had the advantage of serving a densely populated area with many large cities, including the federal capital. Now that Continental had benefitted so handsomely from the Denver Case, the routes of the two airlines met at Chicago.

One common denominator was the choice of the British-built turboprop Viscount. This airliner had first gone into service with British European Airways in 1953.



The Club Coach compartment of the DC-7B, showing the lounge.

and its instant success had left to a flurry of orders, the most dramatic being one from Cardal which, with subsequent additions, totalled no less than 60 aircraft. When the Denver decision was made on November 14, 1955. Slim Carmichael had already introduced the smaller Vision count 700 series on July 26 of the same year. The obration-free turbing surgraft was so successful in the highly competitive northeastern quadrant of the U.S. that Capital increased its market share on every more in operated. This impact was all the more emphatic because the gains were made at the expense of United, American, and TWA, all of whose were unused to the purier members of the trunk sirling hierarchy conducting Themselves in such an aggressive at what was worse. successiul — manned

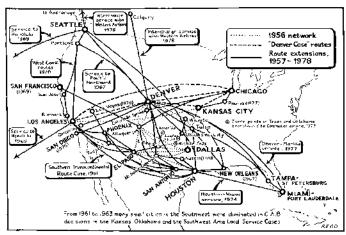
The curstanding performance of the Capital Viscounts undoubtedly affected Sins decision to buy them. Le hod already purchased Convoir 440s, of roughly equal capacity, and a though they were deficient in performance compared with themses turbuprupger gration, the Convariatiner turnity was popular and writch accepted. But it was not too soon to bend the facts of the situation a little to describe the turbuprupge as jets, and gave a tremeradous promotional acceptance.

Whether or not the two airline leaders over seriously contemplated, or went into the details of a possible merger, may never be known. Because of the commonality of equipment, the two notice systems could have been

easily integrated. It would have presented an enormous problem to the CLAB to desire on the higgest integral of all time, which would simultaneously have of immered the term flig From And this might have been so recolutionery a prospect to this based ally could in many profess of the based that they would probably have rejected it, however plansitish a case that could have been made.

Pethaps the biggest problem which would have found the correct antime, however, would have been to decide who would have led in. Both Six and Carmichael were inspired innovation, seizing every opportunity, however stender, to enlarge their separative regimes. Both were dominant personalities, both were prepared to take rake in parsiancy policies which have been and was in central of the larger artise and was therefore map position of strength. But curiously, just as Six Six was made in the ascendant, as the C.A.B. gave of its bounds Carmichael suffered from procreations from the same quarter, desping him the chance to break not of a densely travided market area where the stage distances were on average too shorts to be enominated.

Whether or not six and Cosmichael could over have reached agreement remains a deliginful special attent for had they there so, the whole course of development of the trink airline industry of the United States would have undergone a fundamental change. And I who knows? — there might never have learn any need for the Airline Deresubtion Act of 1978.



From the Denver Case to Deregulation, 1957-1978. After the landmark Denver Case, Confinental cleadily expanded during the next two decades to become a major trunk hidden.



## 8

# Entering the Jet Age

#### More Sparring for Routes

The year 7958 was one in which Continental Airinan mode progress on namely fronts new viceraft, new renal engine content fronts new route applications, and changes in management. All Metch, the C.A.B. instituted the Southern Transcominental Service Cose, another major regulatory development, ranking with the Denver Service Case in its long-term implications. It came as no surprise to the industry that Robert 50s and has team were in the locations with an office of the continuous contents of the continuous of the continuous contents of the contents with an office of the contents of the contents with an office of the contents of the cont

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aggressive, imaginative, and authoritative.

During 1958, a subtle change was made in the airline's name, the words "Air Lines" being replaced by the single word "Airlines," at least on the aircraft and on promotional material. Official documents, however, continued

to use the former style for years.

#### The Viscount

When the Dallas award was announced, Continental had already accelerated its marketing impact to the extent that it had received its beptiam of competitive fire



The British-built Vickers Viscount was the world's first turboprop airliner. Continental introduced it on May 1, 1958. This one carries the Golden Jet colors introduced in 1959.

on a big intercity route. The Douglas DC-7B had done well between Chicago and Los Angeles, and the public was talking about Continental's new Club Coach fares and amenities. American Airlines, TWA, and United had already been served notice that the new boy on the block was no novice.

Giving further emphasis to its new stature, Continental introduced the turboprop "Jet Power Viscount II" on



Clarence C. West, one of the Varney old-timers who served in World War II, became executive vice president before retiring in 1958.

May 28, 1958. While the DC-7B maintained the nonstop Chicago-Los Angeles service, the Viscount, with its shorter range, was deployed on the stopping services, Chicago-Denver-Los Angeles and Chicago-Kansas City-Denver-Los Angeles. It was an instant success. Aggressive and effective promotion for both aircraft, with the emotive word "set" being thrown into the advertising field with gay abandon, resulted in Continental garnering almost half of the traffic on this very important group of city pairs. For an airline which a mere three years previously was regarded only as a twin-engined operator (its DC-6B's being used exclusively for interchange services) this was a modern airline re-enactment of David and Goliath.

The Viscount's inauguration was accompanied by all the promotional wizardry that Six's commercial and advertising team could muster. As well as echoing the Gold Carper image started with the DC-78's, handsome new uniforms for all flight crews and ground personnel had been introduced on May 1, 1958, to give Continental Airlines a completely new look as well as a slightly new name.

#### The Boeing 707

Unquestionably successful though the Viscounts were, their impact was soon overshadowed by the entry into service, on June 8, 1959, of Continentals first true jet, the Boeing 707-120. This aircraft, hailed as the Golden Jet and given a handsome new paint scheme to match its title, took over one of the nonstop Chicago-Los Angeles frequencies on its inauguration day, and exactly two weeks later was operating the route thrice daily. By August 15 it was serving Kansas City and Denver as well as the nonstop route, and by September 5, was offeringa total of six frequencies per day between California and Chicago.

The addition of any new airline to the list of jet operators was something of an event, but Continental's case was quite remarkable. Not to labor the point too much, a mere four years previously it was only in the four-engined field at all because of interchange services, not because its own route network demanded it. Now, although still one of the smallest of the U.S. domestic trunk airlines, it became the third domestic carrier, and the sixth in the whole world, to introduce its own epoch-making Boeing 707s. Only American and TWA preceded it in America, National's aircraft having been leased from Pan American.

With the introduction of the Viscounts and 707s, Continental's fleet composition underwent a metamorphosis. Most of the piston-engined aircraft were sold, but a few DC-7Bs, DC-6B's — even a few DC-3s — were retained. Trimming the fleet to an exact match with the requirements, two of the Viscounts were sold, but a fifth 707 was added during 1959 for a net capital gain of \$1,201,000 on the various transactions.

The strict maintenance programs, tight scheduling practices, efficient traffic handling and other disciplined procedures, forced upon Continental in the past to offset deficiencies in route structure, now paid handsome dividends. The same austerity, applied to the jets, reaped its rewards. They were, in any case, inherently far more economical to operate than the piston-engined planes, and were now efficiently deployed on longer routes. Continental's high utilization — up to 18 hours per day by 1962 — was the highest in the country by a comfortable margin. The quality of service, with Continental's flair for providing extra amenities, and backed by the

best on-time performance of all the U.S. airlines, combined to pull in record revenues. The result in 1959 was the highest operating profit in Continentals history, almost \$4 million. The net income, after taxes and interest payments on loans, was \$1.7 million, easily another record.

#### Pause for Breath

Continental's headlong leap into the jet age created its own momentum. Bob Six and his airline were now a force to be reckoned with, and the other airlines and the C.A.B. alike treated the once modestly-placed airline with respect, even — because of the continued demonstration of high efficiency — with an attitude approaching envy. With almost any new route case instituted by the C.A.B., both that agency and the other airlines automatically expected Continental to be a major applicant for new routes. And they were seldom disappointed.

Early in 1959, for example, when the board instituted the Trans-Pacific Route Case, the Denver earline applied for routes to Honolulu from its three main cities, Chicago, Loo Angeles, and Kansac City, as well as from its base and hub at Denver, and with San Francisco thrown in for good measure. The same had happened in the spring of 1958, in the Southern Transcontinental Case, While the Pacific Case was to drag its heels interminably, and to become mixed up in national politics, the important Southern Transcontinental package of routes received the C.A.B. examiner's recommendations on



The Boeing 707-120 Golden Jets, complete with new look, projected Continental into the jet age on June 6, 1959.



June 20, 1960. While Delta and National were the main beneficiaries, being slated for transcontinental authority, Continental did not come out badly either, with solid additions to its structure between California and Texas.

On July 1, 1960, the interchange service with American Airlines on the Houston-Los Angeles service was doubled, thanks to the transfer of the DC-7B's, retired from Chicago-Los Angeles and available for other work; and San Antonio was also included. But this was a marketing gesture, aimed to increase awareness of Continental's presence, and to herald the rights which were to come from the Southern Transcontinental award. In any case, Bob Six was hedging his bets both ways.

The tremendous progress made by Continental as the result of the three-pronged injection of new strength the Denver Case, routes to Texas, and the jets - is vividly reflected by the statistics. Progress in the three financial years from 1957, when service started on the Chicago Los Angeles route, to 1960, when the full fleet of Boring 707s and Viscounts were in service, was staggering. Passenger boardings rose by 61 percent, from 829,000 to 1,337,000, but even more remarkable was the passenger-mile growth of 145 percent, from 363 million to 891 million.

Not that everything in the garden was rosy for Contimental in 1960. On June 30, 1960, the flight engineers went on strike, the first in the history of the airline. Possibly feeling that they deserved a bigger share of the pie now that their company was solidly in the black, negotiations went on for more than three months, and were finally settled on October 10.

More alarming, however, had been the fear that Bob Six might leave Continental. Early in 1960, Howard Hughes, the legendary owner of TWA, had stretched his financial credit too far and was deeply indebted to the financial institutions which supported his airline when it too entered the jet age with a \$300 million investment. By the end of the year Hughes was forced to surrender control to a voting trust, after he had battled to retain leadership. TWA had never had a strong president with a consistent record since Ralph Damon died in 1956, and

Hughes thought he might be able to hang on if he could hire a strong man. Such a man was Robert Six.

The offer was made, a tempting one, with three times Six's previous salary, an appropriate level in a world-wide airline which could regard Continentals' recent route gains on Chicago-Los Angeles almost as a feeder route affair. Six gave the offer a great deal of thought, but turned it down. How much of his decision was based on loyally to and love of his own company, or how much was based on the wish to be a big fish in a small sea rather than the reverse, will never be known. His subsequent substantial salary increase as Continental chairman was probably no coincidence, the Hughes ofter confirming his personal market worth. In any event, Continental Airlines continued to go from strength to strength under Six's guidance for two more decades.



Continental's competitive thrust was at every level. These Golden Jet airline steps cost \$10,000, and were the widest in the industry. A gold carpet automatically unwound as the stairs approached the side of the plane.



Boeing 707-128

## 9

## Route and Service Strengthening

#### Another Good Route Award

Corrinental suffered a disappointment at the beginning of 1981 when, in January, President Einselbower rejected the C.A.B.'s recommendations on the Trans-Pacific Route Case, but it was compensated for the setback shortly alterwards, in the Southern Transcentismal Service Case, amounted on March 13, 1981, it was assumed as route from Los Aregdes to Heaston, vol. who not proceed to the control of the Control o

When Continental began service on these new sopments on dues 11, 56,11 quickly because the dominant centre in the Collective Artisone Seas market. The preparation of the Collective Artisone Seas market. The pretable of the Collective Artisone Seas straight. The collective context evaluation of the Collective Seas services (A. being the context evaluation. Never believing heleting selecting objective (a. Sea applied to the C. A.B. settline sometime for an International Season Season Season Season Season Season Season Season Decreared and Collective III. Began the sea transcentimental are services and secons to the affiliated Decreated the Season S

#### End of Local Service

The early 1960s witnessed a complete transformation of Continental's route structure. The sirine had projected steell into the jet age and into the world of major intencity routes with such force and rapidity that it was faced with the groupest of operating, in feet, it no offers faced with the groupest of operating, in feet, also offers routes such as Los Angeles Chicago or Los Angeles Hospaton, But was also a local service carrier, en consess serving all the small cities in the southern Midwest and Rockyl Mountain area that if had colocted on its way up the rocked during the first quanter contany of the sistence. Descentagionems with the latter cross- and cities to the color of the

settled in to its two role as a trusk airline of substance. In the turtherance of this objective, the CAR a subricioned on November 2, 1980, in the Kensac Oldshrom Local Service Case, the transfer to Cartala Airlines of the nities on the Deriver Tubia-Oldshroma toute nativosis. While Conferential in oldinger receded them, Central suss global Conferential in oldinger receded them, Central suss global structure in that seen. The transfer tools jacked almost exactly a year after the decision, on December 1, 1981. Hardin Jack Conferential followed to local service: in

Hardy had Continental tod tareouth to local service in the Kansas-Oldahoran region, when, on November 17 of the same year, in the Southwestern Area Local Service Case, the C.A.B. examiner recommended that ten colles in Texas, New Mexico, and Colorado should be transtered to local service defines. This became a slightly more zeotracted affait, but in the ord, in a decision handed down on February 1, 1963, the C.A.B. relieved Continental from the obligation to serve no less than 14 cities in the southwestern area. It retained Amarillo and Midland/Odessa, but surrendered seven other cities in Texas, including the capital, Austin, as well as six more cities in New Mexico, also including the capital, Santa Fe. Fourteenth on the list was Pueblo, Colorado, a detail which must have injected a certain amount of sentiment to the occasion. For this was the city which, in 1934, had become the northern terminus of Varney Speed Lines' only route, and had later become the junction point of the system when, in 1938, Continental achieved what was then the supreme luxury of possessing two route certificates from the C.A.B.

The C.A.B. order was made final on October 11, 1963, and all routes were transferred to Frontier Afrines and Trans-Texas Airways, later renamed Texas International Airlines, by November 12. One immediate result was that Continental Airlines was able to dispose of its entire Dc.3 fleet, except for one single aircraft which was retained to operate a single route, Derver-Colorado Springs, a curious anachronism which prevailed for many years.

#### Merger Madness

When in August 1961 Robert Six applied for routes to the East Coast — tantamount to a bid for transcontinental status — this was partly a reaction to an announcement that, on June 1 of that year, United Air Lines had acquired Capital Airlines. This merger between the second largest and the fifth largest airlines in the United States resulted in a company which overtook American Airlines as the largest U.S. carrier, and indeed, measured in passenger-miles, the largest in the western world. Coming as it did within three years of the abortive Continental-Canital merser talks. Six must have won-

dered whether he had missed his chance by not pursuing the idea more diligently.

Never one to cry over spilt milk, however, he then conducted merger talks with George (Ted) Baker, head of National Airlines, and who had just come out very well from the Southern Transcontinental Service Case, gaining a transcontinental route from Miami to California even better than Continental's Texas-California package. It would have been an intriguing amalgamation, eliminating a few parallel routes on the transcontinental system. but mainly joining two airlines which operated in completely separate regions of the United States. The addition of the two would, as with Continental-Capital, have created another large airline to match in size the likes of American, United, TWA, or Eastern. Six's interest may have been enlivened by rumors that Northeast Airlines, which for so many years had saved Continental from the ignominy of being the smallest trunk carrier of them all, was the target for a take-over bid.

Robert Six and George Baker made a joint announcement on December 12, 1961 that the two airlines had agreed to merge. But the news had hardly reached the newspapers and magazines when as subsequent announcement was made that Bud Maytag, president of Frontier Airlines, would purchase Baker's controlling interest in National. And that was the end of the Continental-National deal, as Maytag concentrated on making a success of National in its own right.

Most observers in the airline business considered that, if the clash of personalities in the former Continental. Capital proposal — Robert Six v. Slim Carmichael — was potentially explosive, that of Six v. Ted Baker was equivalent to nuclear fission. Both were known as vigorous free spirits, liable to risk unorthodox policies and procedures for the betterment of their respective air-lines. Every bit as sharp as Six, Baker however was devious, as witnessed by his maneuvering with Six and



The Boeing 720B, a smaller version of the B-707, was equipped with fanjet engines, and went into service on June 3, 1962.

Maytag simultaneously. Both were well known for their outspokenness and intemperate language, though Six had the better reputation as a man of his word, whatever his other shortcomings may have been. His big problem was that he was used to leading, and he would have been psychologically incapable of serving in any capacity under another man. One essential element in any merger in which Continental was involved was that Robert Six would be the boss.

During the next two years, two other merger proposals of giant magnitude, but not involving Continental, were floated. Predictably, each was vigorously opposed by Six. When, in August 1962, American and Eastern, two of the Big Four, asked the C.A.B. for permission to merge, the word "predatory" was used in Continental's opposing submission, and this was probably the mildest adjective used by Six in private. That the C.A.B. would ever have agreed to an amalgamation of such enormous size is unlikely. As it was, the examiner recommended disapproval in November, and this was confirmed by the board in the summer of 1962.

Unbelievably, another merger of, if anything, even greater consequence, was in the wind in 1963. Pan American Airways and TWA discussed the possibility of creating an airline which would have come close to creating a monopoly of overseas routes, at least on the North Allantic, and which would have fulfilled Juan Trippels ambition for domestic trunk routes, not only for their own sake, but to link Pan Am's overseas gateways. In this case, however, the two sides did not get very far, and the proceedings in Washington were dismissed at the two carriers' request.

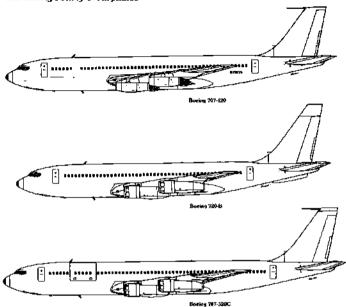
#### Good Housekeeping

Determined to maintain maximum profitability. Continental Airlines kept a tight control both on revenues and expenditures, at the same time seeking innovative methods and promoting new ideas in its efforts to improve both. In the former case, the revenue side of the economic equation, Continental began to acquire a reputation for challenging the basic procedures and time-



Aerial view of Stapleton Field, Denver, about 1960. Continental's hangars, formerly the wartime Modification Center, are the large ones on the right.

#### The Boeing Family of Airplanes



honored traditions of fare levels and lare setting, as practiced since time immemorial.

It had always been in the forefront in promoting low tares, having introduced coach class as early as December 1948, only a month after Capital Airlines had poneered this startling experiment. Then there had been the controversial Chub Caach Fare of 1957, the first time an airline had ever offered first-class features in ceach class. Now, on December 1, 1951, Continental came up with according class. At faxe levels set at about 25 percent below ceach class, passengers could choose a "no-rhits" standard of on board service on all Goldon Jof flights. The economy flare behaves the Aingeles and Chicago, for example, was only \$77.00, compared with \$102,30 coach. A discrimination cassened to in the thritty.

sense of the term, could, by interchanging with Continental at Chicago, fly coast-to-coast for \$119.40.

in August 1982, the oconomy lare structure was rationalized to provide a threa-tier service, with jet economy coach, business class, and first class. After a trial period, this was later extended by the C.A.B. to October 26, 1983, Although the three-class fore structure did not gain wide popularity during the early 1980s, passenger acceptance gradually changed, so that, twenty years later, the business-class section became almost standard practice by many atclines on their main routes. Once again Robert Six and his airline had been ahead of the pack.

On the cost side, Continental continued to strengthen its strict control over every item and to find ways to save unnecessary expenditure. The already commendable annual Golden Jer utilization figure of about 13 hours revenue flying per day was increased even further to an impressive level of almost 15 hours per day. This was equivalent to spending about 40 minutes out of every hour in the air, and only 20 minutes on the ground, round the clock, every day of the veer.

This unprecedented development was achieved by instituting a new maintenance procedure, affirst called "perpetual maintenance." Previously, airlines had always taken aircraff out of service for mandatory maintenance and overhaul, according to a rigid timetable of check periods, varying from a few hours for frequent inspections, replacements, and replenishments of small items, to several days, or even weeks, for major overhaul of engines and airtrames. This not only took aircraft out of revenue-earning service; but required spare aircraft to be kent in reserve as temporary replacements.

Whole fleets of aircraft were formerly carefully integrated so that individual planes fitted into a cycle pattern. The larger the fleet, the less wastage of revenue hours lost on the ground, because a spare plane could be worked into a large pattern far more easily and economically than with a small fleet. Now, Continental, which had never enjoyed the luxury of possessing a large number of any single type, went one better, and revolutionized the whole system.

In cooperation with the aircraft and engine manufacturers, it devised a maintenance program in which the entire cyclic schedule of mandatory checks was broken down into self-contained periods. The work in each one could be performed in a few hours, without affecting the work in the other periods. Certain hydraulic systems and functions, for example, could be checked, serviced or replaced on one day, electrics the next, controls and instruments the next, and so on. The mandatory maintenance was thus more evenly spread over the whole operatine life of the aircraft.

The basic principle was simple and sound. Almost all the work could be broken down into periods not exceeding about eight hours, which meant that the whole program, with certain exceptions involving major component changes, could be undertaken during the hours of night. This released the maximum time for the planes to earn their keep during the average working day, which occupied about 16 out of the 24.

Continental introduced the system, which was later called "progressive maintenance," to the whole airline industry, which quickly recognized its worth, and imitation being the sincerest form of flattery thereupon copied it.

#### New Planes, New Colors

Other than the consolidation of routes between California and Texas, Continental did not receive any further routes from the C.A.B. during the first few years of the 1960s. It campaigned strongly for authority between Los Angeles and San Francisco, the busiest air travel corridor in the world; and was bitterly disappointed when, in the Pacific Southwest Local Service Case, the nod went to TWA, which had long felt deprived of an adequate share of the transcontinental traffic to the Bay Area.

Nevertheless. Continental's traffic was so buoyant during the period, as it quickly became established as a popular trunk airline on an equal footing with the big trunks in every market it served, that it added to its jet fleet. In June 1981, it ordered four of the Boeing 720B version of the 701, with shortened fuselage, and able to carry 108 passengers in a typical three-class seating layout. The aircraft cost \$27,500,000 - a figure which would have appeared horrifying, even to Robert Six, ten years previously - and went into service on the main routes on June 3, 1962. The 720B was equipped with the latest fan iet engines, that is, engines in which a large proportion of the intake air was carried around the combustion chambers, to rejoin and augment the main jet thrust. This gave the engines a much better fuel economy, which was reflected in lower aircraft operating costs.

By the time the 720B joined its sister ships, the 701-120s, Continental Airlines had, in the spring of 1962, adopted a new paint scheme for its entire turbine-



Continental's last DC-3, retained to operate the shuttle service from Denver to Colorado Springs, was finally retired in April 1966.



(1965) Continental Douglas DC-9-10

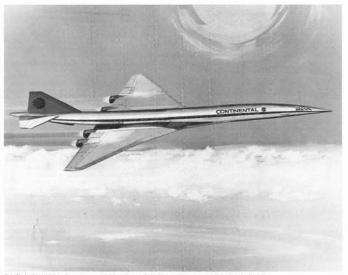
engined feet. This was a handscone black, white, and gold, giving the increal activities appearance that caught the eyes of potential clients at all the airports it served and made a distinct contrast with sourse of the more conservative color schemes of its competitions. Only the less IDC -878 and IDC -689, used on interchange services, and the lone IDC-3, will working between Demon and Colorado Signings, retained the old markings.

#### A Time for Reflection

 nation by the ground crews, the aircraft was prevented from taking off by FBI sharpshooters who abot out the tires. Well-coordinated action by the FBI, the crew, and two of the hostages resulted in the capture of the ounmen. The aircraft returned to service within three days. Less than a year later, on May 22, 1962, Continental's 25-year safety record came to an end. Its last fatal accident had been in 1937, when two passengers were killed in a Vega crash. Now the very same 707 which had been hijacked took off from Chicago's newly-opened (January 15) O'Hare Airport and crashed at Unionville, Missourt - at least, that is where most of the wreckage was found. At first, the presumption was that the captain, Fred Gray, had flown into a thunderstorm, and had crashed out of control, a theory which was even voiced by the F.A.A. administrator, Noiseb Holaby, Subsequent detailed technical investigation, however, revealed that the probable cause of the crash was a bomb explosion in one of the lavatories. Far from crashing out of control, Gray had somehow managed, by superb airmanship, to bring the plane down in a semblance of a glide, with no tail, and with the engines turn off. The crew had gone



The DC-9-TBC was a version of the Douglas cain jet, equipped with a large cargo door. It could quickly be converted from passenger to freight configuration. It entered service on April 10, 1906, replacing the Viscounts.



Bob Six had great hopes for a supersonic airliner, but such designs as this never got off the drawing board.

through emergency procedures, there was no fire, and such was the skill of the pilot that one man was found skill alive, in the severely damaged fuselage section, although he died shortly afterwards. The incident was a great shock to everyone at Continental. The FBI was never able to identify the perpetrator of the outrage, although there was a mass of circumstantial evidence against one of the suspected passengers.

#### Supersonic Digression

Less sensible, and undoubtedly motivated by emotion rather than by sound technical evaluation or business judgment, was Robert Six's preoccupation, amounting almost to an obsession, with supersonic airliners. Having taken a big gamble with the turboprops and jets, and won handsomely, he now took the plunge again, in a bigger gamble, and with much higher stakes. The odds, in the absence of potential supersonic routes, not to mention proof that a supersonic airliner could ever be prolitable, were heavily against him; and although he secaped from

the predicament with not too much harm done, the episode revealed that his judgment could sometimes be faulted.

This was another example of Six's intuition rather than cold-blooded analysis of the facts ruling his decisions. To be fair, he was not the only one to be mesmerized by the grandiose claims of the supersonic supporters, who managed to perpetrate the myth that passengers would always wish to fly faster, at whatever cost. This totally ignored the problems of bringing operating expenses, not to mention manufacturing costs, down to a level which were economically feasible; and even worse the supersonic protagonists managed to convince airlines, governments, and public alike that the engineers and designers would somehow find a way to eliminate the sonic boom, a fundamental physical phenomenon, and one not likely to be surrendered easily by bother Nature.

Nobody listened to the airline economists, who were skeptical from the start, and were proven right after billions of dollars had been spent on both sides of the Atlantic in a politically-charged rivalry for the elusive supersonic formula. The first project to be put into serious development was the Anglo-French Concorde, first designed as a 140-seat aircraft for fly at 1450 mph at 60,000 feet, at which height the sonic boom was claimed to be acceptable to people on the surface of the earth. As it turned out, it was not. When the Concorde eventually went into scheduled service, flying only for the national airlines of the two countries which built it, its route pattern was restricted to over-water, or over-desert flying, over which, it must be stated, its technical performance was impeccable. But the sonic boom was ruled to be totally unacceptable over populated areas.

But while the dream lasted, Robert Six was enraptured by it. In July 1963 he made a deposit of \$505,000 on three Concordes, and Continental would have been the first United States domestic supersonic operator, had the aircraft overcome its operational handicaps. Only the British Overseas Airways Corporation, Air France, and Pan American Airways were ahead of Continental in the provisional order book list. Each of these flag carriers ordered six, while Continental ordered three —ahead of TWA, which at least had overwater routes, and American Airlines, hitherto always in the forefront when a new airliner made its apnearance.

At the time Six placed his order, the cost of each Concorde was estimated to be about \$10 million, which was hopelessly optimistic; and delivery was forecast for 1971. But the enormous technical problems led to much higher costs, and the aircraft did not make its first flight until 1969; so that Six would have been faced with introducing a much costlier and smaller (100 seats) aircraft much later, in a period when the accent throughout America was to bring fares down, so as to expand the air travel market into lower income levels. Even if the sonic boom problem had been resolved. Six could never have operated the Concorde. He would have had to cover its impossibly high operating costs by charging impossibly high fares, in the region of \$1,000 one way from Los Angeles to Chicago or Houston. And this kind of superluxury class fare structure could never have been sustained beyond a brief introductory period of a week or two when some people would have flown simply for the

Continental had a field day, however, with supersonic publicity. Flight times of 98 minutes from Chicago to Los Angeles, or 82 minutes from Houston or Kansas City to Los Angeles were confidently predicted — although no reference was made to the fare structure. But the Concorde order never materialized and the down-payments were refunded, with interest.

Six's determination to lead the United States into the supersonic era led him also, in 1966, to reserve delivery positions for the United States SST (as supersonic arliners were called), even before the contract had been placed with a manufacturer by the Federal Aviation Administration (F.A.A.) which was charged with the responsibility of producing for the U.S. a bigger, better, and faster SST than the Europeans. Continental's initial deposit was \$600,000 and January 12, 1968, a further \$1,500,000 was contributed towards the delivery costs. Fortunately for Six, there was little penalty attached to reserving U.S. SST delivery positions (the contract was won by Boeing) as he got his money back. Other sundry expenditures could be written off as being well spent for promotional and image-building purposes.



In 1963, Continental introduced a handsome and dignified new uniform for its flight attendants. The string of pearls was the idea of Audrey Meadows, Bob Six's wife.

#### **Business As Usual**

Thankfully, meanories of such tragecines as the fatal accidents and observations such as the SST are short. Both the industry and the public it serves keep the safety record in perspective, subconsciously, finn they statistical analysis, recognizing that air transport is as safe as any other mode of travel, and a great deal safer than driving a cor or walking the streets at right in a big city. Artine life has to go on, and in the case of Continental, the accidents and the halkicinations had to be consigned to memory while the management concentrated on other important issues.

One of these was to move the corporate headquarters to Los Angeles. This took place on July 15, 1983, as a logical step in Continental's development. Deriver was in the middle of its network, and although something of a hub, was not priving the leading generators of traffic, nor the origin point of many of its Rights. To transfer the administration and the engineering base to a main traffic hub, which was at the same time the terminus of mars of the trains services, was simply common gene. Aloc, Los Angeles was right on the Pacific Ocean, and therefore a good bounching pad for any sorties in that direction which might be contempdated.

During the mid-1960s there were two important changes in the senior management. Harding Lawrence, an executive of Pioneer who had joined Six when that airline was taken over by Continental in 1965, and who had rigen capidly in the ranks, resigned at the end of 1964. During a period when Six was spending a great deal of time away from the airline, reaning some loisurekr rewards for have ing run the airline almost single-handedly for many years. Lawrence had taken control. Continental had prospered under his guidance, which was no less dynamic than Six's, and Lawrence aspired to the presidency But he left that Six would never make room for him at the top and move over to the conventional populative and honorary position of chairman of the board, an accepted procedure in many large and successful U.S. corporations. Lawrence left to become president of Brandf International Airways on April 5, 1965 — and that is another story of the rise and fall of a dunamic leader.

On February 28, 1966, Louis H. Mueller, the veteran knancier from San Francisco, who had once partnered Walter Varney in giving agrial journess in 1919, resigned as chauman of the board. Six continued without a chairman, retaining leadership as president. Hitherto, Continental's annual reports had seldom given credit to the efforts of any members of the staff, however senior. although each report, a model of its kind in every other way, customarily began with a picture of Six himself on the title page. But although he would never have admit. ted it, he was now beginning to feel the need for administrative support. The industry had expanded into new areas of control and management, each segment of which was demanding full time attention in the modern. world of complex financial management and exploding computer technology, both in the air and on the ground.

Rather in the nature of certain political parties in Great Britain, where a leader emerges in some mysterious process of human selection, a successor to Laurence surfaced from the wealth of qualified talent which had been responsible for one of the smalest U.S. airlines conducting itself like one of the biggest. Alexander Dantan had joined Continental from TWA at the time when Highles was trying to therep Sin to join TWA. Dramm had proved his ability by mensoing TWANs finances and truring in the largest profits in that adribes history. And he was to be no less responsible for Confinental's power-tal financial record in the 1998. Damm effectively succeeded Laurence as senior vice president and general manages of Continental Stiffines.

#### Short Haul Jets

While debates on supersonics were attracting head-lines and inspiring considerable promotional activity at Continental, the management had to attend to more practical matters. While the Viscounts had performed well, and for a few years at least had held the competitive edge over piston-engined types, the airliner manufacturers had refined their designing capability so as to produce two engined jet aircraft, ablis to compete economically in short-had markets. The French Caravelle, tollowed by the British BAC One-Eleven, had been the first twin jet airliners, Then the Douglas Aircraft Company produced the DC-9, and it was to that manufacturer at Long Beach, California, almost on its home doorstep, that Cominental worst for its poyst aircraft acquisition.

In March 1965, it ordered twelve DC-9C convertible cargo versions, with an option on aix more. They went into service on April 10, 1965, first replacing Viscounts on the Dallas Albuback EL Pasca and Dallas Albuquerque routes, and quictly expanding to most of the shortenaut segments of the network. Oddly enough, the DC-95 were never used in the all-cargo configuration; and in fact Douglas's sales of the type were never substantial. Six had been weep along by an intuitive, cather that an analytical judgment of the potential market for an freight. Continental spain missible gold the market, but the Douglas plane provided storling passenger-carrying service nevertheless.

Simultaneously, the last DC-3, unobtrustively shuttling back and forth between Denver and Colorado Sorines, was finally retrived. By this name also Continental had contracted in November 1965 to sell its fleet of Viscounts to Channel Armays, a local U.K. operator, run by another causaise, Jack Jenses, who differed across the airline scene in Great Bettsin by ambitious (though less successfull policies similar to Six's. But such domestic apparent maneuvers did not occupy prime time in the deliberations at board level at Continental. Even viscous of a transcontinental route were set to one side as, from his new ventage point on the shores of the Pacific, Rob Six cast his eyes westward in search of the means by which he could turn Continental into an intercontinental



### 10

# Oriental Reconnaissance

#### Military Air Charters

Transcerding all other developments during the 1960s was Continental's entry into the international, indeed the intercontinental airline arena. It achieved this long desired goal ingeniously -- its critics would claim almost craftly -by a combination of three methods of penetration intothe area. None was by the normal C.A.B. process of extending its existing network. One was a trans. Parific military charter service: another a military contract sunport company in the Orient; and a third was a commercial subsirfiery established in a U.S. Trust Territory, thousands of miles from the continental U.S. To-emphasize the difficulties of breaking into new airspace be orthodox procedures, in November 1963 the long-awaited Trans-Pacific Route Case was concluded, and all applications, including Continental's, were denied, even for Mainland-Hawaii service.

Luck Isocced the brave. Shortly alterwards, in sponse to the demand by the U.S. Armed Forces for sesponse to the demand by the U.S. Armed Forces for seercercuss shift of tens and supplies across the Pacific in support of the Wettam Wile. Continental Aritims we spick off the mark and was swarded a contract by the spick off the mark and was swarded a contract by the Military Ariell Formand (MAC) in May 1964. Equipped with Iwas Boeing 370/330C bring range fair jets. Continental immediately issuched testil which bearseful into the Pacific arerus, and rejected its own personality into the operation. The military personant were to discover that, when flights began on September 4, 1964, from the ware thatters to other oriental cities and to the U.S. thouse the on-board arrarrities of the 165-seat Bosings, including pool fool and gracious stewardness service, were tally up to U.S. domestic airline standards and superior by the tothe average military width essentials.

The right instance is the a subground deporture to the Continental, historic belief even a transcrontinental strone. Flying the Partic was an great an undertaking as free face coast and serous the Relative comments of the West Particle Conference in the West Particle Conference in the Relative comments of the West Particle Conference in the Relative comments of the Rel

The operation expanded mightly, with flights also from McGuine AFB, New Jersey, and Kelly AFB, Texas. The demand for additional capacity was promptly met.



The Boeing 707-320C began trans-Pacific charter service for the Military Airlift Command on September 4, 1964.

by continued repeat orders for long-range Boeing 707s. By the end of 1967, Continental was operating ten aircraft, with more on order, and during that year completed no less than 1,323 round trip flights across the Pacific, approaching an average of four per day. This was no small achievement, especially as a schedule reliability of 95 percent was maintained. Astonishing utilization levels were attained, peaking incredibly at almost 17 hours per day in 1966.

Some idea of the impact of the military charter business on Continental, and one which must have had a deep impression on everyone in the airline, can be deduced from the cold statistics. In 1967, only the third full year of the MAC Airlift, international (contract and charter) revenue passenger miles flown stood at more than three billion, more than 50 percent higher than the figure for the whole domestic system. Cargo ton miles, which peaked in 1969 in the Pacific operation, at close to 100 million, were more than double the domestic total.

By the time the Vietnam War came to its end, and the need for the trans-Pacific airlift declined, Continental Airlines had acquired all the transoceanic flying experience it needed. During the busy years of the airlift, it ranked as the fourth largest United States international airline, with only Pan American, TWA, and Northwest Orient ahead of it.

The impact on Continental's finances was wholly beneficial. During 1965-1968, the four busiest years of the trans-Pacific operation, one third of Continental's total revenues was accounted for by "all other revenues," most of which stemmed from the military work. Expenditures, on the other hand, were low, with aircraft operating long stages at maximum efficiency, and many of the ground services provided free or at minimum cost. In 1966, Continental's earnings, after payment of income tax, totaled more than \$17 million, or an unprecedented 11 percent of total operating revenues.

The MAC contract charter service was finally terminated in April 1973. With wide-bodied aircraft already well into service by that time, all the Boeing 707-320C aircraft were sold, and an important chapter in Continental Airline's history came to an end.

#### The Charter Fallout

One of the fortuitous results of acquiring a fleet of long-range jets for the trans-Pacific military contracts was that any surplus capacity could be used elsewhere. In particular, this gave Continental the flexibility to participate in the thriving trans-Atlantic passenger charter market, specializing in packaged tours. These were normally contracted by travel agencies or travel cubs which took care of the ticket reservations, hotel bookings, and ground arrangements. All the contracted airline had to do was to supply the aircraft and to fly it after winning the contract by competitive biddies.

As a scheduled carrier, Continental was permitted to perform nonscheduled flying on a limited scale, the maximum allowable under C.A.B. regulations being 2 percent of the annual scheduled miles flown. By the late 1960s, the board had legitimized charter flying after a long and weary battle by the hardy survivors of the postwar buccaneers, the large irregular carriers. If formed a new category of airline, the supplementals, and although airlines such as Pan American campaigned bitterly against the nonskeds, as they were familiarly called, they were forced to accept the challenge of this new breed of low-fare airlines.

The scheduled airlines, having previously condemned nonscheduled flying as the "eighth deadly sin," cynically entered the market. For an airline the size of Pan American, 2 percent of its considerable annual mileage comprised a handsome slice of the trans-Atlantic charter market.

Had his career developed differently, concentration on nonscheduled flying would have been meat and drink to Robert Six. He was never happier than when engaged in a bitter competition for routes, aircraft, or any kind of contract. Low fares, discriptined operations, overheads cut to the bone; all these ingredients for a successful charter operation were subjects well understood by Six and his staff. As it was, Continental was able to fit in more than 50 charter flights to Europe in 1965, to destinations such as London, Frankfurt, Rome, Copenhagen, and Paris, all direct from California.

#### Continental Air Services

The second string to Continentals Pacific bow was a wholly-owned subsidiary, Continental Air Services (C.A.S.). This was founded on September 1, 1965, with its operating base at Vientiane, Laos, the small Indo-Chinese country of little more than two million people, and an unwilling participant in the conflict that was raging in neighboring Vietnam. Continental purchased the company from William Bird & Son, a construction contractor for the Agency for International Development (AID), which had welcomed the injection of a little free enterprise competition with Air America, thereby keeping costs down.

Bird had purchased the operation from R. L. "Dutch" Brongersma, who had spent 25 years in the Far East, and who, in 1956, had acquired several small aircraft to fly supply missions into the mountainous areas of Vietnam for the authorities in the region. Brongersma was retained by Bird, and thereafter by C. A.S.



The Swiss-built Pilatus Porter was a versatile little plane specially designed to land on very short, unprepared strips. Continental Air Services used them in Laos during the latter 1960s.

Continental Air Services operated an extraordinary mixture of aircraft. Thirteen or fourteen different types were represented in the fleet, which numbered between 40 and 50 aircraft during the latter 1960s. There were five or six each of the well-tried Curtiss C-46 and Douglàs C-47 transport planes which are always to be found in remote places all ower the world, hauling supplies into airstrips which few other modern aircraft of their size can use. For the primitive strips which presented problems even to the DC-3, C-A.S. used specialized STOL (Short Take-off and Land) types: six Dornier D-28s, three Scottish Aviation Pioneers, and twelve Platus Porters, the Swiss built plane designed to land on the proverbial postage stamp. C-A.S.'s fleet of this last remarkable plane



This Laotian airstrip was typical of those served by Continental Air Services.

was the largest in the world. Sundry small Cessnas, Pipers, helicopters, and other planes made up the remainder of the fleet.

Every month, during the period of emergency of the Vietnam War, with this rag-tag assortment of flying machines, Continental Air Services flew about 4,000 hours, carrying an average of about 20,000 passengers and 6,000 tons of assorted cargo. Operating in rugged terrain, frequently under severe conditions (a mild understatement to cover typhoons, attacks by enemy warplanes, and ground fire by the C.A.S. crews become expert in mastering short take-off and landing techniques, and altogether acquired a vest experience in flying skills which would have been impossible to simultaneously and the another contractions.

One disappointment was the inability to use three Lockheed C. 130d Hercules transports, which turned out to be too big for the complex pattern of supply missions in the jungle areas, where the individual aircraft loads were too small to permit their efficient distribution in large transports. Some of the supply missions were carried out by the use of "lickers," recruited mainly from Thailand, who pushed loaded pallets out of the open cargo doors of the C-46s and C-47s. Each pallet, destined for a village or community cut off by surface routes from normal supply sources, would typically be loaded with almost half a ton of rice. Up to seven pallets could be carried in each plane.

As the Continental Air Service organization developed, its work divided itself naturally into several parts, each quite distinct from and independent of the trans-Pacific Continental Airlines B-707 military supply line. First, in Laos, where C.A.S. had originally taken over the operational base of William Bird, it was entirely under contract to the AID programme and the Loatian government. In this activity, it operated side by side with Air America, the division of Civil Air Transport (C.A.T.) of Taipei, Taiwan, and known to one and all as a branch of the C.I.A. Additionally, C.A.S. provided two C-47s for the use of the Laotian government, to carry troops and officials from Vientiane to provincial points.

Second, C.A.S. was subcontracted to Air Vietnam, the civil airline of South Vietnam, whose resources were unable to cope with the dual responsibility to maintain a



This load of cargo being discharged at Bangkok was typical of the massive trans-Pacific airlift performed by Continental during the Vietnam War.



The Lockheed C-130 Hercules was a good load carrier, but could not use the small strips in the Laotian jungles.

commercial operation and at the same time undertake work for the Vietnamese government. C.A.S. signed an extensive contract with the wast American RMK-BBJ, construction consortium, carrying supplies to assist in building docks, airports, roads, and other badly-needed facilities in the war-stricken country.

In April 1968, C. A.S. became involved in a third country, Thailand, in cooperation with a group of Thai businessmen, it formed Birn Air Transport, Ltd., to perform air taxi work and other commercial air services in Thailand, Finally, in October 1970, it organized Air Alliance, Inc. as a subsidiary company to provide aircraft, crew, and maintenance to Khmer Akas (Cambodia Air) which had been established by Cambodians in Phnom Penh to carry out air transport work. It made its first flight on October 21 from the capital to Battambang, and, for the short period before that unfortunate country was engulled in a dreadful holocaust, was the only airline in Cambodia.

Continental Air Services employed a work force which at times exceeded 800 very specialized and very talented aviation people. As the Vietnam War drew to its close and demands for support services changed, so did C.A.S. In the early Seventies, for example, C.A.S. planes, nominally under the ownership of Air Allance, cooperated with a Thai company to provide a service between Singapore and southern Thailand in support of drilling operations by two large U.S. oil companies.

Continental Air Services, Inc., was finally wound up and all operations terminated on December 19, 1975, as the Communist forces took over the entire region of southeast Asia, including Vietnam, Cambodia, and Laos. And of course the Military Airlift Command trans-Pacific contracts also came to an end.

#### Apprenticeship Complete

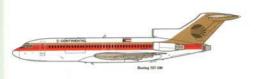
Meanwhile, however, all these activities — and there were more to come — in the Pacific region served

Robert Six and Continental Airlines well in the campaign to obtain permanent certification for scheduled service to the Orient and to Australia. Through the combination of long-distance, transoceanic experience in fanjet air-craft gained from the MAC contracts, and the conduct of affairs in the oriental environment gained from its Continental Air Services activity, the parent company was fully equipped to challenge all rivals in a legal presentation to the Civil Aeronautics Board. In addition to the experience, it possessed a fine fleet of Boeing 707 aircraft, ideal for the mission, and was fortuitously in good financial health, partly because of its lucrative contracts over the Pacific.

Late in November 1966, 18 airlines filed exhibits with the C.A.B. in support of applications for routes in the reopened Transpacific Route Investigation. The Transpacific case was probably the largest ever heard before the board. Continental had every reason to believe that its case was among the strongest that would come before that agency. But to strengthen its position, and to ensure that its image was no longer simply confined to that of a U.S. domestic carrier with restricted horizons, Continental then proceeded to intensity its campaign. Already holding two trump cards, the MAC trans-Pacific contract and Continental Air Services, it proceeded to play a third. It formed Air Micronessia, a local service airline serving the islands of the central Pacific, with a route network extending over a distance greater than the width of the contiseous United States.



Scene at Victiane, Laos, during the late 1960s, as supplies are unloaded from a Continental plane.



### 11

# Air Micronesia

#### A Unique Problem of Local Service

The islands of the western Pacific Count, now known as Micronesis, how been under the control of many different foreign powers during the 20th century. Consisting of the Mariens, Caroline, and Marshall salend groups, the 2,000 tray specks of land and costs abolis the pacific country of the 2,000 tray specks of land and costs abolis they are the control of the control of the control of the pacific country of the control of the control of the pacific country of the United States, without Alakas. During the past half century their population, confired to about 4 percent of the islands, has increased from about 50,000 to 100,000, and of when could be come about 50,000 to 100,000, and of when could be come about 50,000 to 100,000, and of when could be

accommodated in the Bose Bosell.

Originally part of the Spanish surpire after their discovery by Magellan in the 24th century, they were pur
chaneled by Germany in 2899, after the Spanish American
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the U.S. With the defeat of the Century Towers in World
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Late in 1949, the U.S. Department of the Interior took over the administration of the islands from the United

States Navs, and among other development projects, as about the stake (providing a transport service between the more important of the 86 inhabited islands. This was no reaso task, as these were spread out over a distance of almost 3,000 million from uses to usest, greater than from New York to Can Angeles. Nevertheless, early in 1950, several air and sea carriers were troited to participate or a training of the control of

Among the carriers was Transocian Airlines, one of the free wheeling consoleduled airlines which arose after World War II. Founded by Orea Neisen — who would have halded flower fish as at lether movel — in section 5 to 10 to 10

ers in Guarn.

On July 1, 1951, Transocean began interisted air service with four Consolidated PBY 5-A amphibians, modi-

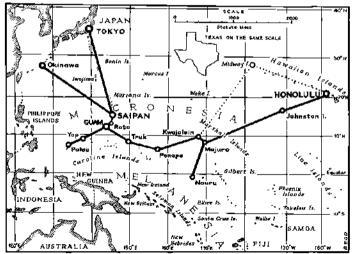
fied to carry ten possengers, plus rargo. The sircraft were supplied by the Navy, while maintenance, sparse, fuel, crews, and administration were supplied by Transcorean. Regular flights were made from Guam to the main sistands, Truit, Ponape, Majuro, Sajean, Yap, and Kozoc. The service was entirely for the benefit of the islanders and administrators, as the Trust Territory was not yet open to touriets, for whom, in any case, there were absolutely no facilities. Transocean operated the service for rine years, until it wonth bank rupt on Jobs! (1, 1962, and Pan American Airways was salted to take over the research fillities.)

The worlds most experienced airline ellocated for the service one mover I Douglas DC-4, to operate to the few islands which bossted primitive airlaring, and two overable Grumman SA-16 Albatross amphibians to serve Ponage. During the serven years under Pon Am, the Trust Terratory Air Service was never completely satisfactory. Breakdowns were commorplace, as the supply and maintenance of adequate spares heldings were expensive and presented a considerable logistice problem. Comfort standards were poor, and the islanders may have telt that Pan Am's canvas seats implied that they were second-class citizens. No hot meals were served, and cold box funches for a five-hour DC-4 flight led to frequent adverse comment.

As a consequence, in the late 1960s, the Department of the Interior invited proposals for improved service, and received hist from Pan American, the incumbent; North-west Orient Airlines, the second U.S. trans Pacific scheduled airline; Hawaiian Airlines, based a mere 2,300 miles away from the easternmost idend of Micronesia; and a newly-formed airline, promoted by Continental, whose Pacific experience was restricted to transposanic mailiary charter work and a nonscheduled operation in southeast Asia.

#### Air Micronesia is Born

In making his bid for a permanent Pacific foothold to succeed a temporary one, Robert Six could not have or chestrated his compaign more shrewdy if he had hired a feam of campaign facticitients. The key to the strategy was the formation of the United Micromesia Development Association (UMDA), in which Continental Airlines held a 32 percent interest, with the bilance held locally, the objectives were to further the accupational development of the Micromesian islands, including the creation of a tourist industry as a source of wealth, UMDA was the largest shareholder in the furmation of Art Micromesia.



Air Microresia, 1968. By a remarkable leat of publical negotiation, Robert Six escablished Continental's presence in the Pacific.

holding initially 49 percent of the shares, with Continental Airlines holding 31 percent and Aloha Airlines, of Hawaii, 20 percent.

The terms allowed for the progressive purchase of additional shares by UMDA, at 2 percent per year, up to a maximum of 60 percent. With Continental's own shareholding, together with its approximately one-third share of UMDA, the whole operation was transparently a Continental affair.

In its petition for permanent certification, Continental made three pledges. First, it would flyte increaft, specifically. Boeing 277-100s, just as soon as airfields could be prepared to accept them. Even though turboprop Lockheed Electras (which presumably would have been used by Northwest, it successful in its bid) were better than Pan Amb DC-4, Air Micronesia thus went one better, and could not be faulted from a technical standpoint. Hawaiian did not own aircraft with sufficient range.

Second, Continental undertook to train Micronesians to become an integral and significant part of Air Micronesia's work force.

Third, it pledged itself to create a tourism industry in Micronesia, to help revitalize its stagnant economy, by building six modern resort hotels, one in each of the Trust Territory's six political divisions.

Such a combination made Air Micronesia's case almost unassalable by its rivals. On January 17, 1968, it signed a five-year contract with the government of the Trust Territory, and thereby acquired instant legal status. Nevertheless, knowing that only one battle had been won and that the war was still ahead, Air Micronesia lost no time in taking every possible stee to consolidate its precarious foothold in the Pacific.

Dominic P. Renda, senior vice president, legal, & corporate secretary of Western Airlines, was hired as president of the embryo airline, based at Saipan. His first task was to launch a crash program of airlied improvement and construction so that the promise of jet service in the immediate future would not be seen as an idle boast or a confidence trick. Interim service was quickly provided to those islands with airfields by one of Continental's Douglas DC-68b which was now superfluous to the interchange operation with United. Affectionately nick-named Granny Goose, it replaced the unpressurized DC-4 over the old Pan Am network. The amphibian route from Truk to Ponape was continued with the Grumman Albatrosses, leased from Pan American.

Air Micronesia's big day was May 16, 1968, when the Boeing 727-100 u.b. u left Saipan and flew to Honolulu, a distance of 4,300 miles, with seven stops. A jet connection was also made from Saipan to Okinawa, still at that time under U.S. administration, but the branch line from Guam to Yap and Koror was continued with the D.C-68; and the connection from Truk to Ponape was still maintained by the veteran Albatross.

Little change was made to this basic network. Johnston Island was added as an intermediate stop between Honolulu and Majuro, for traffic authorized by the military command, on June 18, 1969. But this was short-lived, as in January 1971, the storage there of chemical warfare nerve-gas — supplies, removed from other parts of the western Pacific, led Air Micronesia to suspend service to that island. The Micronesia-Hawaii connection was preserved by routing the planes via Midway Island, with



Dominic Renda, previously with Western Airlines, was Air Micronesia's first president.

Kwajalein as the first port of call. Although this led to higher costs, because of the circuitous route with no extra revenue, the main objective of preserving Micronesia as an integral part of the aerial highways of the North Pacific was preserved.

On December 4, 1969, a branch line was opened from Majuro to the tiny island replublic of Nauru, formerly a British colony, but now independent and comfortably wealthy because of its enormous deposits of guano, the basic ingredient for a thriving phosphate industry. But this service was suspended after little more than a year, at the same time as the suspension at Johnston Island. Oddly, this little Air Micronesia feeder line was Continental's first commercially scheduled international air route. Though not sustained, perceptive observers may have perceived it as analogous to the biblical cloud no bigger than a manis hand.

Air Micronesia fulfilled all the promises made in its three-cornered program of development. On February 9, 1970, it began Boeing 727 jet service to Ponage, when the new 7,000-foot runway was opened. The two leased SA-16 Albatrosses were consequently retired, and the first pledge was thus honored to the full. Since the summer of 1968, the second pledge had been faithfully kept, when the first six Micronesians began a mechanics' training course. To employ local personnel to work for the airline was obviously a popular development. Radio communications were improved installed would perhaps be a more correct term as none existed on most islands and local personnel trained in their operation. To support the third pledge, the Department of the Interior eased the entry regulations for the Trust Territory, so as to



Air Micronesia's first Boeing 727-100 Ju-Ju awaits passenger boarding at Truk.

permit tourists, and the first new Continental Hotel was opened in June 1970, at Guam, to be followed by others at regular intervals.

#### Permanency in the Pacific

Gaining permanent recognition for the Micronesian service was a long struggle. The C.A.B. examiner had recommended Air Micronesia, but in July 1970, the board recommended that Pan American should operate it. At first, the White House referred the matter back to the C.A.B., but Trust Territory officials strongly supported Air Micronesia, even threatening to impound Pan Am planes if they landed. Eventually, on August 11, 1971. the Civil Aeronautics Board granted permanent authority to Continental/Air Micronesia for routes in the U.S. Trust Territory, Additionally, a new segment was added, though never flown, linking Okinawa with U.S. Samoa, via the Gilbert and Ellice Islands, thus expanding the line by another couple of thousand miles or so. The only reservation was that the Okinawa certificate's duration was limited to five years after May 15, 1972, in anticipation of the eventual transfer of that island back to Japanese sovereignty.

Bob Six and Continental knew that they would still have to fight every inch of the way to obtain final White House approval for this vital route. The president always had to approve any C.A.B. foreign route award, ostensibly for security and defense reasons. But the privilege was often abused for political party reasons, and from reaction to powerful lobbying groups; and so it was with President Nixon. Twice he sent the opinion back to the board, clearly favoring Pan American Airways, and twice the C.A.B. provided additional logic for its choice. The president was on dangerous ground. He ran the risk of undermining the integrity of an agency whose implied judicial rulings as well as its statutory regulatory functions were supposed to be politically impartial. He also risked alienating Micronesian officials, who could not fail to be completely satisfied with the methodical and comprehensive way in which Continental Airlines had kept all its promises.

The president eventually conceded the point, and on October 5, 1971 approved the permanent certificate for Air Micronesia. At last Continental had a permanent foothold in the Pacific Ocean.

For the next five years it consolidated its position, not

by any new spectacular events, but by steady, reliable service, matched to the islanders' needs, and to the growing demand for tourism which it had itself stimulated. On December 15, 1972, a second Boeing 727-100 was added to the Air Micronesia fleet, permitting jet service to Yap and Palau, and allowing the old DC-6B to be honorably retired. A new teletype system was introduced, linking all six Trust Territory districts, and no doubt providing communication also for matters other than directly airline-related ones. On March 15, 1974, the Saipan Continental Hotel was opened, the largest of the hotel chain, and calculated to attract a new wave of tourism from Japan, whose links with the island remained very strong, not only from its prewar League of Nations mandated tenure, but also because of sentimental ties as a legacy of World War II.

There was a political change. In 1976, the Northern Marianas, i.e. Saipan and the neighboring islands, voted to separate from the Trust Territory, and to become a Commonwealth of the United States. The new government was elected in January 1978, Also, on January 1, 1977, Kusaie Island, at the extreme eastern end of the Carolines, was designated as a new district of the Trust Territory. But these events did not affect 4ri Micronesia.

#### **Expanding the Beachhead**

The service to Nauru marking Continental's first cautious scheduled service footing on foreign soil, had been a modest and temporary episode. But Air Micronesia's importance was out of proportion to the size of its modest two-aircraft fleet. And so history was to repeat itself, when in the mid-1970s, Air Micronesia gained access, not to a tiny island republic, but to Japan, one of the world's great powers, and an international air travel generator of the first magnitude.

Like all previous steps forward in its route expansion, Continental's route to Tokyo did not come easily. The idea had first surfaced in April 1972, when the Civil Aeronautics Board instituted a proceeding to consider United States flag service between Suipan and points in Japan. The bilateral agreement between the two countries had already been in effect since 1969, authorizing each country to select a carrier to operate the service.

The case dragged on through oral arguments during 1973, but before a decision was made, it was reopened in 1974 for a second hearing, and further submissions were heard before the board in 1975. The C.A.B. sent a unanimous recommendation to the president in August of that year to award the routes to Continental/hir Micronesia, with the restriction that it could not operate single plane service between Guam and Tokyo. This was returned, with presidential doubts as to whether the route could be financially viable, but the board held its ground, albeit with much procrastination, and returned the recommendation to the president on May 10, 1976. Eventually, President Ford gave his full approval for the route. but with the Guam restriction retained, and the



Air Micronesia's 727 loads up at Guam from one of the airline's jitneys.

award became effective on August 28, 1976.

Shortly afterwards, on July 17 of that year, Saipan International Airport was opened, providing the necessary standards for the largest wide-body aircraft, and foreshadowing considerable Japanese potential tourist traffic. Almost as if to protect Air Micronesia from financial embarrassment (as the little airline lost money during its early years, and had to struggle to break even at the best of times). Continental sold a Boeing 727-100 to its associate on March 1, 1977, and simultaneously leased it back for twelve years. This assured "Air Mike," as Air Micronesia was now called by its many friends, of permanent income from a source that would not be affected by fluctuating economic or traffic trends in the western Pacific.

After further negotiations with the Japanese government, service was inaugurated between Saipan and Tokyo on October 1, 1977. Thus by its visionary promotion of Air Micronesia, in a gamble which had its roots in endless submissions to an apathetic Civil Aeronautics Board, and the experience of transoceanic charter service during a military emergency, Continental Airlines finally became an international airline. Patience and perseverance eventually received their just reward.

By this time, as will be described in the next chapter, Continental had already extended domestic service as far as Hawaii, so that theoretically Bob Six had also achieved his ambition of becoming a trans-Pacific operator. A passenger could leave California, change from Continental to Air Micronesia at Honolulu, and reach Japan via the island chain, with Saipan as he last stop.

Though this was a somewhat ponderous operation, the die was cast. Continental couldfust as well have been renamed Intercontinental. From this time on, there was no turning back, no loss of momentum, and the airline, stimulated by the prospects for widely expanded service throughout the Pacific region, took on a new lease of vigorous life. By the end of 1983, Air Micronessia's fleet had incresed to four Boeing 72%, and was operating to Manila and Nagoya as well as to Tokyo.



Exhibit G. Continental's R&R leaflet, aimed at Vietnam War servicemen and their families.



### 12

## Trans-Pacific Conquest

1967-1978

#### Sparring for Advantage

The acknowledged success of Continentals ventures into the Public recent led to serious and eystematic plans in the Public recent led to serious and eystematic plans in furthering of the cause for permanent certification of a roote to Asia. But there were also range their got attend to on the domestic front. These were individually less spectacular than a 7,000 miles most to 7 biles, but to feet to the control of the control of the submarter goal. Each step forms of the control of the submarter goal. Each step forms and the consolidation and expension of the routed not retired to the submarter goal. Each step forms and the consolidation and expension of the routed strength and the submarter goal and the submarter goal and the submarter goal and the root active and such control of Continentals airline a status and the root active active and the root active and the

In 1866, the roote mileage covered by all the Continees und claims in the various investigations before the board collections of the various investigations before the board continues of the con

the huge reopened Trans-Pacific Case almost a permanent fixture on the calendar, others were added to the list so that by 1968, the airline was involved in no less than 13

Smithtaneousky it kent Continental's name constantly before the public eve by supportive promotion with a direct appeal, such as by introducing the "Proud Bird With the Golden Tell' slopen. While this led to a few ribald remarks, the airline was one of the more talked about in aviation circles, and by the traveling public, which also took adventage of the special Discover Americo fares launched in March 1967. Continental backed un the outside paint schemes with something tangible inside the planes; in 1968 it introduced few abreast seating as standard in its Boeing 707s and 720s, without charging a higher fare than the six-abreast offered by its corrections. For several years, Robert Six had a running battle with the C.A.B. over this issue. The agency claimed that for such an improvement, under the generally accepted basis that fares varied according to comfort standards. Continental should charms more. But with an average break-even load factor of 31 percent in 1967, the airline could justly claim that it could affeed to offer the public better service as a direct result of its own efficient methods and procedures; and that the C.A.B. was thereby penalizing good housekeeping. The issue was dehated for many years, and another airline based in Los Angeles echoed Continental's basic principles by offering more generous legroom with its six-abreast seating. Ultimately the C.A.B. had to give way to a defiant pair of airlines which demonstrated their faith in common sense, and which were supported by public opinion. In a small way, such action by the board's bureaucrats served to sow the seeds of dissatisfaction with unnecessarily rigid regulations, and ultimately led to legislation which brought about the downfall of the C.A.B. itself.

#### Boeing 727s to the Northwest

One of Continental's many route applications met with success when the C.A.B. awarded Continental a route to the northwestern states in April 1967. It was important not only because it added new territory to its marketing area, but because — as on previous occasions — it served to create the demand for and the selection of another aircraft type. Continental service began on June 13 from New Orleans to Portland and Seattle, via Houston, Tulsa, and Wichita, and the now redundant interchange service with Braniff was suspended on the same day. That with United also ended on July 1

At first, Continental leased a Boeing 727-100 from the manufacturer, and operated it until it took delivery of its own 727-224s in May 1968. The stage distances involved in the various combinations of segments flown over the new routes to the Northwest encouraged Six to move up from the Douglas DC-9, which seemed too small for such a route, but at the same time to choose a plane which was more suited to the medium-range distances than the 707; hence the choice of the three-engined 727, in its "stretched" version, to take care of the expected traffic demand. Having disposed of its piston-engined fleet, and earlier versions of its jet aircraft, and never at a loss to find a reason for publicity, Continental was able to claim, in 1967, that it was the only — and therefore the first — all-faniet airline in the United States.

During 1968, several events combined to provide cause for celebration. There were modest changes to the system, such as the inclusion of Austin in the mainstream. of routes across Texas, and direct service to Colorado Springs from both Chicago and Los Angeles, A new paint scheme was adopted, designed by the noted designer, Saul Bass. Replacing the already handsome black and gold fuselage was a striking combination of orange, red, and gold horizontal stripes, with the golden tail retained (to stay with the slogan) and a new, modern insignia to supersede the old Thunderbird. In June 1968, what was claimed to be the world's largest air cargo building was opened at Chicago's O'Hare Airport, although this turned out to be one of Six's misjudgments, as air cargo did not grow as sharply as some experts had predicted. More fully utilized was the new SONIC computerized reservation service, introduced during 1968, as



As a prelude to scheduled trans-Pacific operations, Continental expanded its domestic routes to the Pacific Northwest, using the Boeing 727-200.



The Boeing 747 was used by Continental during the early 1970s, before the DC-10 became standard equipment,

Continental joined in the quiet revolution which was going on behind the counters and the agents' ticketing desks.

#### A Cat and Mouse Game for the Pacific

The inauguration of jet service in Micronesia in May 1968, related in the previous chapter, was a major event for the year. But transcending all else, coming as an apparently well-timed Christmas present on December 19, 1968, was the president's decision in the TransPacific Route Case. The C.A.B. had recommended Eastern Air Lines for the route to Australia and this seemed an odd choice as the airline was identified with the eastern states. But in fact this was an important facet of the reasoning behind the selection. Nevertheless, Lyndon Johnson overturned the decision in favor of Continental. Not only that, the presidential recommendation was positively lavish. The islands of Fiji and Samoa were predictably included as en route points to Australia and New Zealand; but full provision was made also for connecting routes through the U.S. Trust Territory (Micronesia) to Guam and Okinawa. This was treasure indeed, and seemed too good to be true. And it was,

Before disaster struck, however, there was more good news, in the shape of a New Years gift, on January 4, 1969. The Hawaii Route Award gave Continental access to Honolulu from Chicago, Kansas City, Phoenix, and Los Angeles/Ontario/Long Beach, to be effective from February 13, and to embrace full connections between Hawaii and both Micronesia and U.S. Samoa. Continentals cun seemed to have runneth over. And it had.

On January 24, 1969, in one of his first acts on assuming office after his victory in the election. President Nixon deferred the international phase of the Pacific and Hawaii awards, and even postponed the Hawaii routes until April 14. The president made his position quite clear on February 11, by directing the C.A.B. to vacate all certificates previously awarded. Warming to his work, on April 11 Nixon disallowed a second new South Pacific carrier (the first being American) on the grounds that the second one should bypass California. Why this should have disqualified Continental is not quite clear, as Robert Six would have been perfectly prepared, even eager, to bupass California if that was all that was needed to gain access to the Pacific. Other decisions affecting Continental were the further deferment of the Samoa-Okinawa route, pending the Pacific Islands Local Service Investigation, and the disapproval of the use of satellite airfields. for example Long Beach and Ontario.

How much of all this was the result of impartial economic analysis, and how much the result of partisan politics (Nixon was Republican, Six was Democrat), not only in the choice of airline, but also in choice of airlenate airports in the sensitive Republican strongholds of southern California, will never be known. Politics apart, the use of satellite fields such as Ontario would have been a daring experiment in diluting traffic from the congested Los Angeles gateway, and one which had been fully justified by the new route combinations which had been successfully launched by intrastate carriers such as PSA and alf California.

#### Hawaii Service at Last

After all the bickering, however, Continental Airlines finally reached Hawaii, on a permanent basis and with generous route authority. In the C.A.B.'s definitive award

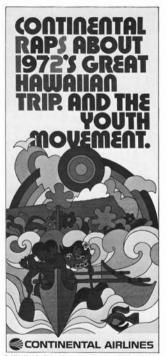


Exhibit H. A leaflet used to market Continental's Hawaii trips.

on July 22, 1969, Continental retained all the points listed in the original recommendation to the president on January 4, and received additional authority to serve Honolulu from Seattle and Portland because it was prepared to offer coach fares and its competitors were not so flexible.

The first Continental Mainland-Hawaii service started on September 9, 1969. It originated in Chicago and was routed via Los Angeles, using a Boeing 707-320. On October 1, further service was added from Denver, Seattle, Portland, and Houston, and on November 1, a nonstop Chicago-Honolulu schedule consolidated the Hawaiian route structure. Quite obviously, these routes constituted a major breakthrough for Continental, not only because of its access to a vacation market with enormous growth potential, but because (as has been discussed in the previous chapter) Mainland-Hawaii was a vital link in the chain of routes which was eventually to culminate in a trans-Pacific service. And as if to emphasize its confidence, Continental followed its own established custom and marked the acquisition of an important new market with the deployment of yet another new aircraft type.

#### Wide Bodied Aircraft

Fortunately for Robert Six, his infatuation with supersonic airliners had not deflected his attention from the course of mainstream airliner development. Never accustomed to selling himself short, he quickly joined the ranks of customers for the new product from the formidable Boeing production line. Boeing and Pan American Airways had astonished the world - almost in a repeat performance of the former Pan Am 707/DC-8 order by announcing the purchase, on April 13, 1966, of 25 Boeing 747s. Each of these huge airliners could carry between 360 and 450 passengers (even more in strict economy class) and was 80 percent larger than the biggest commercial jet then in service, the DC-8-63. Pan American, as was its custom, was the first to enter service with the new giant, on January 22, 1970, but Continental was not far behind.

On June 26, 1970, the big new Proud Bird with the Golden Tall made its appearance on the Chicago-Los Angeles-Honolulu route. At first equipped with 355 seats, this was later reduced to 290, which for an aircraft the size of the 747 was truly luxurious. Logically, the service combined Continental's two best routes, the Chicago-Los Angeles domestic connection, linking the U.S.'s second and third largest cities; and Los Angeles-Honolulu, the busiest link to Hawais. By 1972, Continental had become the second largest passenger carrier in the latter market, such was its competitive impact against Pan American, United, American, Western, and others.

The decor in the Continental Boeing 747s was possibly the most attractive of any of the world's leading airlines which rushed to operate "Jumbo-Jets", as they were quicly called by the popular media. (Boeing is reputed to disapprove of this term, but no doubt prefers it to the "Big Ugly" nomenclature adopted by a certain aircraft manufacturer south of Seattle.) The different classes of service were allocated cabins with color combinations reminiscent of the Pacific-related locales served - plus luxurious amenities: Diamond Head Lounge in first class, Polynesian Pub in coach, and Ponage Lounge in economy. By the spring of 1972, four Boeing 747s were in service, promoted with all the flair for which Continental had become known. Much of the credit for a cabin decor which was the envy of every other U.S. airline must go to Audrey Meadows, the former actress who had become Robert Six's third wife.

One advantage of operating the large aircraft was the considerable volume of freight capacity made available, and this was particularly timely, as during 1971 and 1972 a longshoreman's strike on the West Coast forced many shippers to and from the Hawaiian islands to make use of air freight. And of course, Continental was only too happy to oblige with its 747.

As if to trump its own ace, Continental ordered more wide-bodied aircraft almost as soon as the first one went into service. In July 1970, still basking in the aura of the 747's inauguration, it ordered eight McDonnell-Douglas DC-10s. This was the Long Beach manufacturer's entry into the wide-bodied category of airliner, which differed from the Boeing 747 by having only three engines instead of four. Correspondingly, it had about three-quarters of the Boeino's canacity, and, in its earlier version, about three-quarters of the range. Later versions increased the range almost to equal the 747's, but the basic aircraft size and capacity did not change. Continental's first eight DC-10s were the type designed for transcontinental, but not trans-Atlantic routes. The second eight were the -10CF version, with provision for convertibility to freight haulage.

The DC. 10 went into service for Continental on June 1, 1972. The first route was Los Angeles-Denver-Chicago, but the versatility of this aircraft, able to carry 345 pass-sengers in an all-economy configuration, was such that it was quickly deployed on most of the longer routes of the Continental system, including those to Honolulu. The distance from California to Hawaii was about 2,500 miles, or roughly the same as the transcontinental flights, so that the so-called domestic version of the DC. 10was able to take this part of the Pacific Ocean in its stride. In fact, the Los Angeles-Honolulu seement is the critical stace

on the trans-Pacific operation, so that this was also a good baptism for the Pacific route generally. Following the precedent set with the 747s, the DC-10 boasted a Californian Room in the economy class cabin. Once again Audrey Six was responsible for the eye-carching—and traffic generating—decor, which even included framed pictures in the tollets.

The early 1970s were marked by a world-wide economic development which had far-reaching effects on the airline industry. The international price of fuel, including aviation kerosene, rocketed as the direct result of cartel action by the oil producers, led by the countries of the Middle East. Airlines suddenly found themselves paying about four times as much per gallon as during the 1960s and the percentage of the operating costs accounted for but the 1961s rose to alarming heights.

Resulting from this development, but possibly also because the bookkeeping results as a whole of the Bosing 747s were proving to be less attractive than was at first predicted, Continental showed its preference by taking an option on four more DC-10s on April 24, 1972. These were converted to firm orders on September 20, with the agreement that the total DC-10 order would be 16, of which eight would be the -10CF version. Within 16 months of this announcement, the Boeing 747s were removed from service, on January 10, 1974, one having been retired as early as September 15, 1973. The



With the advent of wide-bodied jets, Continental's onboard service excelled itself.

company stated that their temporary atoragest Roswell, New Mexico, would save 19 million gallons of jet fuel per year. In a ribust to the DC-10, Continental circle its lower fuel consumption, lower costs generally, and, most important to the economists, lower break-even pessenger lead.

During the same period, a far-reaching policy decision was made reparating the Continental lines as whole. If was decided to standardize on two types, the DC, 10 and the Boeing 127-200, for which latter aircraft additional orders were being placed field; regularly almost every year. The exception was for the two 127-100s required for Ak Micronests (and unit the new airfield west built at Punapa, the soldinary DC-68). During 1972 and 1974, in the furthersance of this observine, no less than 35 aircraft were sold, including all the Boeing 707-32005, most of the 17005s, and all 16 DC-98. At the same time, fall advantage was taken of a funancial agreement with a group of lavestment banks, concluded in June 1971, amounting to an injection of a record \$125 million of additional leon cootial.

While all this was soling on, Continental was vigorously prummling its first service in a highly competitive emironment, which was further intensified by the fuel price increase. In May 1971 ill aunched a strong appeal against the C.A. B. is proposed of an 85 percent surcharge on its like-abreast scaling on what were now called narrowbodied aircraft, to distinguish them from the 74% and the DC-10s. The C.A.B. finally capitulated to a strong tide of public opinion, and reversed its position and May 31, 1972.

In other ways, with mostes — "Public Pictures at mo extracast" and date obars in the economy sections of come aircraft, Continental fived up to its reputation of cabin service par excellence. When Miss Dottle Lee was the Miss Airlines International title in 1974, she was the fourth Continental Right attendant in a row to gain the honce. The new slopan "We Really Move Our Tail for You's tittacted as meny remarks, and more, as slid the "Proud Bird" motto, but its touch of brawade was characteristic of the airline, and there was no doubt as to who was setting the poce on the Hawdisin routies.

### New Routes Galore

Not so many years previously, Continental had had to clow its way, almost inch by inch, into the mainstream of trunk within activity in the United States. Now it seemed to erigo; on almost permiselve actitude from the C.A.B. During this period, the early and mid-1978, it experienced a transformation in its route structure, particularly in long range markets. The accomplishment of a trans-Pacific connection was, of course, the most spectroular addition to the map which adorred almost every Continental publication, even though the actual connection from the U.S. mainland to Asia was not exactly by the most direct route. But this obscured other real victories won through the regulatory process.

After long drawn-out hitigation with the C.A.B., Confinential at last reached the Atlantic Ocean, when on February I, 1974, it opened Boding 2008 service between Houston and Miami. This was the result of the final decision in the Southern Tier Case, onnounced in February 1973. Continental now had its transcontinental route, but Bob Six had even further ambitions in the sentward direction. In Sentember 1973, he applied for trans-Atlantic authority, with rouses from Dallas and Houston to London and Frankfurt, together with another connection from Marni to Madrid, and Rome. The C.A.B. was showing signs of relating its previously austern attitude to the entry of new carriers into territories regarded hitherto as the private preserves of well-established affines, and with the surging straffic on the North Atlantic, Six antertained high hopes. But these were dashed when, in Jenuory 375, the C.A.B. an nounced that no new carriers should be certificated for service to Furnose.

However, things were moving along nicely in other directions. In July 2073, Continental and Western Akines had applied jointly for a new interchangs service between Renes and Alaska, to take full advantage of the community of interest between the new major oil producing region in the 49th state and the traditional heart of the oil industry in Texas. The momentum of the North Slope oil boom seemed to have had some effect in Washington too, for the application was quickly approved and service started on the route to Anchorage, with the interchange point at Seattle, on June 1, 1974.

By the end of 1974, with a route network covering a fair partition of the northern the misphere, from Okinowa to Miami, and from Alaska to Texas, Continental had good reason to feel well pleased with itself. The first was trimmed eliticiantly to 12 Dr. Ris and 33 727-290s, (and two 727 100s for Air Micronesia). The only other aircraft ware two 720Bs, up for sale, and three Dr. 9s. on lease.

Further good neiss was round the corner. Within two years, from mid 1976 to mid-1978, important new segments had been added to the network. On May 21, 1976, sher litigation which had begun in 1968, Confinental was authorized to fly monstop from Denver to San Diego. This, the southermost city of California, once known only as a nevel base, was now the third most populous urban center in the state, and an important traffic generator in its own right. And Deriver was growing as a vocation center, serving the sigh reservis of Colorado.

Peoria was added as a stop on the route to Chicago on February 38, 1977, an action which perhaps skil not receive too much protest from which perhaps skil not receive too much protest from tival shillness. More important was the result of the Deniver. Southeast Route Case, wherethy Continental was granted a parcel of city pairs between Deniver and Florida, with permission at both MiemifFort Lauderdole and Tampay St. Petersturg, in addition to Denver, two other cibias, Tiles and Wichila, were also given direct service to Florida. Then on June 1, 1978, a second Interchange service with Western Aritimes linked Calgary, Camada, with Houston, via Denver - another oil industry connection. On October 1, of the same year, a Phoenis Las Vegas (Newada) route put the "Entertainment Capital of the Werld" on the Continental map. The citien was now really moving (15 tail).

#### Direct Trans-Pacific Service At Last

Transcontinental service, access to Alaska, transborder to Canada, puddle-jumping to Okinawa: these were commendable achievements. But they all paled into insignificance compared with the final and irrevocable conquest of the Pacific Ocean, by direct scheduled service, which was accomplished during the latter 1970s. There had been a slight histus in additins across the



The McDonnell-Douglas DC-10 became Continental's flagship during the 1970s.

ocean, when the Vietnam War drew to its close in 1975. The trans-Pacific military airlift had ended in 1973 and Continental Air Services was wound up at the end of 1975. Other attempts to retain connections with Southeast Asia had been less than visionary. Special relationships during 1974 with Air Siam and Air Vietnam for interline ticketing and maintenance were doomed from the start; the former because it's precarious existence was short-lived due to misjudged commercial risk-taking in the face of the complex and adverse political climate in Thailand, the latter because it was a victim in the downfall of South Vietnam.

A shot in the arm came from an unexpected direction. By an extraordinary turn of fate, American Arifines, which had been granted the South Pacific in the great Route Case, decided to abandon it. In a kind of gentleman's agreement, American transferred to Pan American its authority from midwestern and eastern U.S. terminals to Hawaii and the South Pacific. Pan Am, for its part, conceded some of its authority in the Caribbean to American. This was a neat exchange which received the full approval of the C.A.B., which, however, reopened its investigation of the South Pacific to determine if Pan American should retain the monopoly which it had now reasined.

This was in July 1975. Almost exactly two years later, after the usual tedious claims and counter-claims with the board, President Carter, who apparently did not share Richard Nixon's grave doubts about Robert Six's competence, approved a new Continental Afrilines route from Los Angeles to New Zealand and Australia, via Honolulu, U.S. Samoa, and Fiji. With the Air Micronesia route to Tokyo (see the previous chapter) beginning on October 1 of the same year, the trans-Pacific dream at last came true.

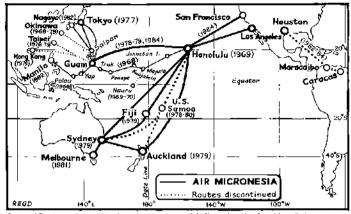
Such setbacks as the first major strike in Continental's history, when the Air Line Pilots Association (ALPA) virtually grounded the airline from October 23 to November 17, 1976, were forgotten in the heady excitement

of embracing the largest ocean in the globe. The loss of a DC-10, damaged in an accident beyond economical repair on March 1, 1978, was equally overlooked as the airline introduced Chickenfeed fares two months later, its contribution to the deep discount fare war which was sweepine the country.

To cap everything, on October 13, 1978, only six weeks after the authority was granted. Continental opened the longest route in its entire history, when DC-10 service started from Los Angeles to Taiper, Taiwan, with authorized stops only at Honolulu and Guam. This put an end to the rather artificial appearance of trans-Pacific capability on Continental's maps; for very few people, other than staff employees, had ever actually flown end to end from California to Okinawa via the islands of Micronesia.

Within a few more months, on May 1, 1979, South Pacific service started to all the points authorized on the certificate. One route, to Auckland and Sydney was routed from Los Angeles via Honolulu and U.S. Samoa; the other reached Sydney with stops only at Honolulu and Fiji. Then on July 18, 1979, taking full advantage now of the convertibility of the DC-10, a full frighter service, with 121,000 pounds (60 tons) of freight capacity, was substituted on the Taipie service, where presumably Continental's containers were well utilized in the expanding Taiwanese export rade.

This heady success of suddenly becoming a full-scale operator on both the North and South Pacific routes had come only after years of frustration, hard work, special pleading, a little luck, and endless litigation with the regulatory authority. The culmination of all the struggles, by the inauguration of the two intercontinental routes, had ironically coincided with the abandonment of the time-honored procedures, with their agonizing delays, irritations, frustrations, and denials which had caused so much blood, sweat, and profanity. For on October 24, 1978, President Carter signed the Airline Deregulation Act, and nothing was ever the same again.



Confidential Gree Intercentificated, 1979-... Continental 5 into senting with Air Micronesia and its substantial contribution to the trans Profile military within helped to support its claime for premanent authority for muces to the West and South Pacific.

# 13

# Deregulation 1978-1981

## Almost a Merger

Only two of the certified trunk airlines of the United States were ever based in the West: Continental and Western Air Lines. Neither was ever large, by compactson with the Big Four and Pan American, which had been big almost from birth; nor did libey become big, like Northwest and Braniff which benefited from lucrative foreign air route awards after World War II; nor like Delta, which grew with the thriving economy of the Southeast, and enjoyed favor from the C.A.B. both in transcontinental awards and for permission to merge with two trunk airlines. But in its later years, with its Pacific expansion. Continental suddenly acquired new stature, while its fellow westerner, although expanding to Alaska and Hawaii, did not experience such explosive growth.

In December 1970, American Airlines and Western had formally applied to the C.A.B. for permission to merge. This was after Kirk Kerkorian, one of the more successful of the supplemental airline promoters, had gained control of Western, and taken over the reins from none other than Terry Drinkwater. The latter had left Continental under a cloud in 1944, and his presence no doubt added vehemence to Robert Six's opposition to almost anything that Western wanted to do. Although apparently Kerkorian and Drankwater did not get along either, and Drinkwater left, the Western-American merger proposal was pursued by Kerkorian until the end of 1971, when the C.A.B. hearing examiner made it clear that he would not support it. Subsequently, Six's opposition, among others, was supported by the Department of Justice and by the board's own staff of expert advisers,

and the merger did not go through.

Later on, Six was to report that a merger between Continental and Western "had been considered logical and desirable" at that time, and as soon as the American Airlines threat was removed, the two western airlines were visibly more friendly. Two interchange services, connecting the Texas area (served by Continuental) to Alaska and western Canada (both served by Western) m 1974 and 1978 respectively, certainly paved the way for amicable discussions towards a deeper relationship. In fact, on the very day that the Houston-Denver-Calgary interchange service started, on June 1, 1978, the two airlines amounced that they were planning to merge. On July 12 the plans were made public, and on September 19 the airlines filed their joint application to the board to consolidate their operations.

For a variety of reasons, however, this 1978 merger did not receive board approval either, even though the C.A.B.'s administrative law judge recommended it, and the idea gained substantial congressional support. Both arrings were now tasting the heady auccess of surges of



Continental was one of the more vigorous advocates of training women for the flight deck,

sevence arising directly from two good traffic wears. which were the direct sequel to the introduction of head-By discounted fares. Even before the Airline Deregulation. Act of 1978, the airlines had overcome regulatory misgivings as we'll as their own former inclination to seek higher faires, rather than introduce harshouts in the established. structure. Everyone was discounting, passengers were Jooking into the planes, load factors were high, and so were the profits.

But it was the full before the storm. Pechaps the airlines should have waited. Perhans they should have resisted the temptation to cut large with no thought to the future. Not possessing the benefits of hindsight, however, they all rushed like lemmings over the clift of almost

uncontrolled formatial disaster.

Thus, when Continental and Wustern came to the table again, when the heat and dust of deconnation had settled, there was a different tone to the discussions. Whateas before, two airlines were simply seeking to join. the ranks of the super-fronks like United, American, or Delta by a mutually advantageous merget, the renewed dialogue took on a sense of urgency which had some thing to do with survival itself.

For the record, on August 8, 1980, the two arrines again agreed to merge, with the surviving consolidated corporation to be called Western and Continental Transpartation Corporation. The proposal was submitted to the C.A.B. on September 22, and now moving a little. more capidly under the new mood, with decepulation banging over its head - the board's administrative law audos gave his opinion favoring the merger on February. 6. 98.

But fate intervened to prevent a merger price again. Fire Commental had other more important things to attend to, oil of which, individually and in combination, served to turn Robert Six's airline upside down. One major reason was the effect of deregulation, against which Six had campaigned for years. The intensive assault by rival airlines to erode much of Continenta's maltic now wrecked its finances, weakened its corporate. strength, and exposed it to infiltration from outside interests.

## Deregulation

President Carter signed the Airline Deregulation, Art on October 24, 1978, and - as has been observed in the previous chapter - the airline structure of the United States underwent a complete transformation. There had been proving dissatisfaction with certain chortcomings. of the C.A.B., mainly of its negative effect in restricting free competition in coutes and laves, but also of its powers concerning mergers, and its restrictions on freedom of entry by new airlines into the scheduled field of operations. Added to these criticisms directed towards egislative reform, there was also widespread critation at the mordinate time taken by the bureaucratic process. and the way in which the board itself sometimes appeared. to be influenced by political inhibying.

To its credit, the C A.B. itself had investigated its own. condenous machines y and its appearent effects on the last interpretation of the intent, rather than the letter of the law, it had, for example, in the latter 1970s, condoned al. the deep discount faces such as the Super Savers, the Peanut Faires, and other "no fulls" packages, it had even helped to bring about a minor revolution on the North Attantic by approving Sir Freddie Laker's no reservation. Skyrroin service. By the summer of 1977, there existed a freedor-all on laces, which was a complete volta lace. from the former routine of compliant C.A.B. support for internecine airline protectionism which had traditionally served to keep U.S. passenger fares higher than they need have been, though consistently lower than anywhere else in the world.

The C.A.R.'s Special Staff Report on Regulatory Reform directed by Roy Puleifer, and which had been issued on July 22, 1975, was paradoxically almost a blue. print for airline deregulation and at the same time a formula for the progressive elimination of the C.A.B. itself. Concurrently, the Advisory Committee on Procedural Reform, established within the acenco on June 21, 1975, had studied the problem of rule-making princeduries affecting route awards, thereers, and the freedom. of entry or exit. Thus, when the president somed the soft in October 1978, the C.A.B. was already fully prepared for the onslaught

At 8:30 a.m. October 18, 1978, the airlines irepresentatwee stood in time outside the C.A.B. offices in Washington. to claim dormans nonstop route authority. Seven hundred out of an estimated 19,000 possible city-pair connections were applied for. One airline, Branil!, appeared to have taken leave of its senses, and walked away with onbuch routes to have alone comprised a new attine on the map. albeit with questionable triability. Continental was no slouch either. Wilhin a year, it had added 18 new sigments to its U.S. mainland route network, of which it had second thoughts on ado there

Almost immediately after the Arring Deregulation Act was passed, additional connections were made in the southern part of the Continental system, providing more nonston service to points from El Paso and San Antonio. As the year 1979 progressed, other important new rootes were acided, beginning with Houston Washington, D.C. (Dulles International Airport) on January 2: followed by: an array radiating from Danves, which was deliberately chosen as a major hub. The important Deciver New York. (Newark) link was made on October 1, 1979, and Houston was also given circot service to New York on October 28. On September 1, 1979, service started to Mexico. The different flights cognisting at Denver, and serving also Albuquerque and E. Paso, diverged to La Paz/Los Cabos, Puerto Vallarta/Manzanillo, and Acapulco.

The C A B's revolutionary policy of releasing mute authority almost instantaneously, instead of by protonged. hearings, had thus created rapid changes in the sirling route maps. But it also brought in its wake some other changes which brought into sharp focus the arguments for and against airline deregulation.

## **Financial Problems**

All was not well with the affairs of Continental Airlines. The new coutes made good window-dressing, what with access to the U.S. capital, new routes to Mexico, inauguration of the South Pacific service, and the long awaited connections from Houston and Denver to New York. But these obscured some aminous trends which could be discerned by reading between the fines of the airline's annual report to its stockholders, the last withen by Robert Six after 43 eventful and, until deregulation, almost entirely successful years as president and chief executes officer.

Continental Adrilless incurred a net loss of \$19, 185,000 in 1979, compared with het sermings of \$49, 200,000 in 1978, an adverse turnaround of more ethan \$62,000,000. Much was made of the grounding of the DC-10 fleet by the Federal Aviation Agency, following the dissertous crash of an American Adrilless plane on take-off at Chicago on June 6, 1979. All DC-10s were out of service for 38 days, and as 49 percent of Continental's totalliti was accounted for by this aircraft type, the effect was considerable. But this single factor was over-emphasized and tended to sweep under the carpet of the significant adverse trends.

Compared with 1978, the amounts in almost every category of operating expense uses alarmingly in 1979. Fuel alone ruse from 347 million to \$228 million or by 55 percent, personnel costs rose \$11 million, or by 24 percent, advertising by 35 percent, maintenance and repair by 21 percent, and commissions to ravel against by 59 percent. All these increases users incompatible with a revenue persenger mile increase of only 10 percent. The cost per available for mile soored from 31.84 to 38,74 and the viral break even load factor from 56,7 percent. Itself already dangerously hish— to 63 percent.

Against this gloomy picture, certain steps had to be taken if Continental uset to aurune at all in the Pacific, the area of operation for which it had struggled so long and which held out the best hopes for high profits. On February 8, 1979, two McDonnell-Douglas DC-10-30 long-range aircraft were ordered, excognizing that, good as they were, the medium-range DC-10-10 life could not compete with the Beeing 747-SF, Special Performance) of Pan-American and other competitors, which were able to confil low traffic generating itops such as Pago-Pago or Fili, and offer spectacular constop flights across the Pacific.

Also, on July 18, 1979, passenger service to Taipei, which so recently had been celebrated as Continendal's first genuine trans-Pacific service, was terminated, to be substituted by a freighter service. An effort to augment the freight leads on the North Pacific route was mode on October 1 by adding a branch route from Guant to Hong Kong. Simultaneously, the link with Okinawa was terminated. Then both the Taipei and the Hong Kong routes ended in December 1979, leaving Sappan-Tokyo as Continental's self tenuous link with Asia.

In an attempt to recoup some of the losses, in January 1599 (our DC 16-18 has were contracted to be sold to Federal Express for \$35 million. Uncharacteristically, Robert Six wes not closely involved in detailed matters of routes, activalt, mergers, or battles with the C.A.B. Following the detail of the attempted Continental-Western merger, this priorities changed and he was prescripted with the task of finding his own successor as chief executive officer of Continental Artlines. The job, in the Bight of the red figures on the balance sheet, would prove to be no sinceure.

#### Al Feldman Inherits a Crisis

On February 1, 1980, A.L. (Al) Feldman was named president of Continental Airtines, succeeding Alexander

Damm, who had held the position since May 1976. As president and chief executive officer, Dammhad relieved Robert Six of much of the top level decision making, although the old warrior remained as chairman, and was still vary much in obsolute control. It is labilitately to do to assert that the worse which beset most of the artifaces in the U.S. were not caused by the artifact deregulation process itself, but by misjudgments on the part of those airline executives who missitteepreted the effects of deregulation. But to biams Six and Damm for the deteriorating state of affairs in Continental during the latter 1970s would be to over-simplify Confinentals problems.

In certain highly competitive markets, for example, in deciding whether or not to lake on new notize, they were damned if they did, and damned if they didn't. For it was open season for every airlins, from the regulated (the certificated carriers) to the unregulated (the former intrestate, low-overhead carriers); from the previously demied supplemental airlines to the previously restructed local service operators; from commuter airlines to complete neuconers. All these widely differing comparise, the haves and the have nots, battled fiercely for the lian's share of the dense interrety markets of the U.S.

As mentioned previously, Continental was one of the many prodigal in opening new routes in the first flush of a deregolated environment. Its problem was simply that it seemed to have lost control of its cost structure at the very time when its revenues were put beyond its control by derequiation.

Feldman had been a successful president of Frontier Airtines, having, during the space of a single decade, been instrumental in transforming a struggling local service miline into a strong regional operator, taking second place to no one at its hub in Denver, and becoming a consistent profit-maker. Though he was a man who had been well liked by his staff, because he had guided Frontier's fortunes with a keen sense of sensitivity to its personnel, he came to Los Angoles with a heavy cross to base. For Continental's problems could not be cured by stow and certail remedial treatment. It needed destrict surgesty. With Six disessocialing hinsself from day-to-day adiatis, with Alexander Damm rething on July 1, 1960, and with the deoth of his wife also in July, Feldman had to carry his cross almost simile-handed. so a very lonely

man the attacked some of the main problems with his former seal. On June 1, 1989, he set in motion is restrictioner seal, on June 1, 1989, he set in motion is restricted to the separation of the experience of Denover with Frontier, the main objective was to realign Continentals instructs to concentrate on the emerging Continentals instructs to concentrate on the emerging Continentals instructs to concentrate on the emerging of the continental of the emerging of the emerging of the continental of the emerging of

uaction area. Most drawn of the route changes was the suspension of Continental service on the Chicago Los Angeles route. An effort to retain this route at all costs had been made on May 1, when a fare of \$111.00 one-way, nonstop, with no regerictions, had been introduced. But the sheer strength of the big serimes such as Chiefe. American, and TWA was overwhelming, and on September 8, 1980, this libaportant, segment, the cause of mighty celebrate supportant segment, the cause of mighty celebrate.

tion at Continental's headquarters when the Denver Case was decided in 1955, was removed from the map.

In compensation, further efforts were made to intensity the hub concept. On January 10, 1981, Houston became an international Continental gateway to the Mexican resorts on the Viscatan peninsula. Service to Cancun, Cozumel, and Mérida was accompanied by the catchy invitation to "Get a Yucatan." New routes radiated from Denver at an alarming rate; to ficsion April 1, 1981, Indianapolia and Omaha on April 26, Buston and Lincoln on June 1, Philladelphia and Milwaukee on July 1, and Minneapolio on August 1.

The wadom of wholesale expansion in an uncertain demestic operating environment in which the protective cloak of regulation had been removed was questionable. But there was little doubt about the prudence of a change made on the Pacific route, one which, however had been foreshadowed by an aircraft order placed almost exactly a year before Al Feldman came on board. On October 26, 1980, long-range DC-10-30s were introduced on the routes to Australia and New Zealand, with important schedule changes that permitted fewer stops, Although Filk was retained on one through service. Page Page (U.S. Samoa) became a terminus of another Some flights to both Auckland, New Zealand, and Sydney, Australia, were flown nonstop from Honolulu, thus putting Continental in a better competitive position against Pan American and the Australian flag airling, QANTAS.

#### The Sky Falls In

Sadly, these energetic attempts to improve the sidinalbublic image in the "mad, mad, mad world" of postderegulation competition all came to nought when transtated into finencial results. In a masterly piece of owderstatement, Robert Six, as chairman, and Al Feddman, as president, began their point report to the stockholder side the user 1980 with the words "1990 was a difficult year for Continental Strings."

The neil loss was \$20,700,000, compared with \$13,85,000 the previous year. White this was serious in itself, the appalling truth was that, without certain nonrecurring credits, the loss would have been \$78,000,000. During the year, three DC 19-1007 aircraft had been sold for \$28,100,000; \$8,000,000 had been raised by selling two holds in Guann and Saipan; \$6,100,000 had been reserved in insurence from the write-off of an Air Micronesia Boeng 727-100 at Yap; and \$15,100,000 was received in tax credits.

The bare figures were gloomy enough. Furthermore, relations with the staff, once the profes of the atidine, had deteriorated. There had been a reduction in the work force, with 10 percent of the staff furloughed during 1980. There was a strike of hight attendants from December 5 to 20. 1980, and altouchter Continents? In morale was not

as confident as in the old days of constant expansion in routes, traffic, and profits.

Underlying these financial and personnel problems. the one silver lining which had been perceived to herald a slim chance of respite from behind the dark clouds of despondency suddenly laded. The chances of both parties in the prospective Continental-Western merger evaporated abroptly in the face of other corporate maneuvers. During the early months of 1981, Texas Air Compration, headed by Francisco (Frank) A. Lorenzo, through as subsidiary company. Texas International Airlines (TIA), began to acquire a controlling interest in Continental, eimultaneously making it clear that it did not favor a merger with Western. Western Airlines found itself similarly threatened as UNC Resources, a mining company, moved to acquire or merce with it. Lorenzo was claimed to be tough in labor negotiations and such was the instinctive reaction in Los Angeles that the Conlmental pilots, headed by Paul Eckel, formed the Continental Employees Association (CEA) to campaign against a Lorenzo take over

Nothing secured to go tight for the critics for which so recently nothing had ever seemed to go wrong. On August 3, 1981, the sir traffic controllers belonging to the nationarde union PATCO went on strike, but this was a relatively minor retirant compared with the fight geingen for the control of the airtims. In April, the existence of the Employee Stock Ownership Plant (ESOP) had been revealed. This was a call to issue enough shares to the employees of Confinental to give them a controlling interest. It was transparently a device to prevent the Texas takeover, although in its proxy statement, the words used had been invocedily expressed "to put the corporation in a position to take advantage of future growth opportunities"—whetever that may have mean.

As the loot sides polorized their positions, the antagonism between the Continental establishment and what were regorded as Texan usurpers intensified and graw increasingly bitter. All Fedman uses identified with the ESOP plan and alleged to have been the initiator of it. But with the federal and Caldomia authorities alternately approxing and rejecting the ESOP plan, the pressure grew into a war of harsh words and innuendo, often ahrasive, sometimes vicious.

Looking back on his record with Continental, with its worsening finances, his stall problems, the dealing of his hopes of a merger with Western, an almost certain takeover by Texas Ar, and continuing despondency over the less of his wide a year earlier, Al Feldman's will to carry on falled him. In one of the most tragic sequels ever to the boardroom battless which have been the essence of American business, Al Feldman took his own fer on August 9, 1981. The story of "a man of great integrity"

Lurenzo's words — was one of the most heartrending of all the casualties which could be traced, at least in part, to altime deregulation.



# 14

# **Texas International**

1947-1982

#### Trans-Texas Airways

Ponser Airlines (see Chapter 6) was not the only feeder airline in Tiana. With the exception of California fuelcic in any case had only one), the Lone Star State was satisfact to being able to sustain no local service operators whally settler its own borders. During the heady posters when, that new category of certification and all across the nation, now airlines were rapidly born. These sought to take advantaged once greater and all across the nation, now airlines were trapidly born. These sought to take advantaged on congessional encouragement to offer the benefits of air travel to every commonly in the last.

One aspiring contender use Trans-Texas Airway, which developed from humble beginning to join Pionese which, under its former name, Essaic had actually been the first local service airbite. Pionese was absorbed by a trunk airbite named Continental; and a quarter of a century lake; by a strange turn of events, Continental with properties of the continental continents of the posterior properties. The continent is a posterior properties of the continents of the School and the continents of the School and the School and the School and School a

In 1940, Aviation Enterprises Ltd. was founded by a bandsome youter Texan, R. Earl McKeudson, who open-

and an arraft sales and service husiness at Houtorich Hobby Alproch in 1940 McKsughos feed an application with the C.A.B. to operate scheduled services, and to increase his statute, increposate flut company as Asia-tion. Enterprises Inc. on November 16, 1946. Two years latter, as a result of the Finaso Cidelonne Bote Investigation, the C.A.B. assurded McKsughon four runtes in Texas, the three-year certificate becoming effective or May 32, 1941. The correspondences was was changed for service, with D.C.Su. von Insusamented on October 31.

The first routes were Houston-Victoria San Antonio and Houston-Patiento-Dalla-First Werth Brownsood. San Angolo. This produced three tides of a next square, but within a few years the fourth side was completed, with routes extending westweed from both San Andonio and San Angolo to 18 Pans. Convertions were also made during 10% southward to Brownsood with advanced to the Angolo and San Angolo to 18 Pans. Convertions were also made to the Angolo and Angolo angolo and Angolo angolo

In these early days the local service corriers were very much the second class citizens of the industry. The C.A.B. took its time in providing the small arities with need credentials, and as a consequence they led a bank to-mouth existence, having to apply at intervals for extensions to their temporary certificates until 1955, when these were at last made permanent. Understandably, small fry such as Trans. Texas were unable to take the risk of heavy long-term investment in expensive equipment, either in aircraft or ground facilities. At least T.T.A. began with a sturdy fleet of DC-3s, which was better than many local airlines could claim; but even these attracted a certain amount of disdain from the discriminating Texas clientiele who quickly dubbed T.T.A. as "Tree Top Airways" or "Tinker Toy Airways." Supplying paper fans in the unpressurized planes, and promoting the DC-3 as "the aircraft with the cool white top and the air-stair door" fooled no one.

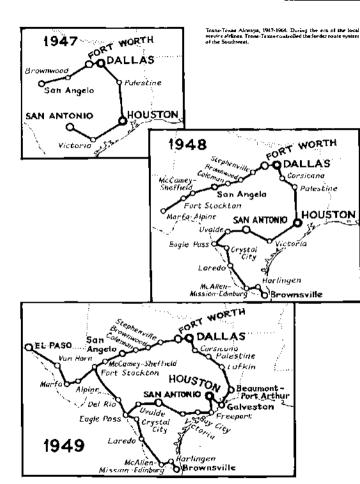
The DC-3s were labeled Super Starliners in 1957, possibly as outrageous a promotion for the aging twin as has ever been perpetrated on a long-suffering public. Nevertheless these veteran aircraft continued to solder on as TTA. modestly expanded its route system in April 1959 to Little Rock, Arkansas, and to New Orleans, at the same time suspending service to five low traffic-generating points. This was in response to the C.A.B. is shrewd "Use It or Lose It" program. By agreement with the local communities directly involved, any station which generated less than five passengers per day was liable to have its heavily-subsidized air service withdrawn. The former enthusiasm to serve every city in the U.S., at whatever cost, was already under scrutiny. Progressively the original concept of local service was to be eroded until, with deregulation in 1978, it was to disappear altogether. Cities such as Palestine, Corsicana, Marfa, Beeville, Waco, and Temple were forced to come to grips with A.L. Mencken's succinct definition of life in the U.S.: "There's No Free Lunch."

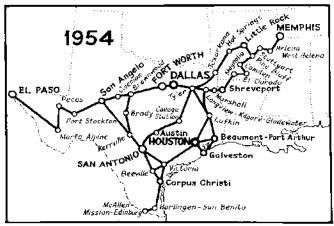
#### T.T.A. Expands

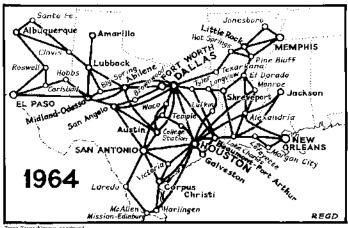
Trans-Texas felt so confident of its prospects during the 1968 that it supplemented the DC-3s with pressurized equipment. On April 1, 1961 it introduced the Convair 240, with the Dallas-Beaumont being honored with the first service. Subsequently, Earl McKaughan and his Texas team steadily expanded the route network, benefting from sympathetic consideration from the C.A.B., which transferred some routes from California Airlines, enabling it to expand into New Mexico, to serve Albuquerque, Santa Fe, and Clovis. The agency also permit ted Trans-Texas to fly nonstop between Houston and Austin. on November 12, 1963, and one week later, the



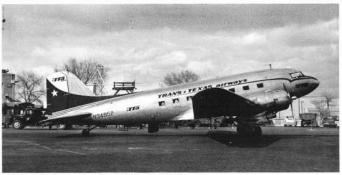
Exhibit I. Trans-Texas timetables, 1947, 1964, and 1966.







Trans Texas Airways, continued.



Trans-Texas Airways began service confidently with the ubiquitous DC-3.

airline joined the formidable ranks of the trunk airlines to enter one of the nation's busiest intercity routes, Dallas-Houston.

By this time, the Convair 240 fleet had grown to an impressive 25 aircraft. A year later, Trans. Texas recognized that, if it was to survive in the big leagues, it had to improve the standards of its equipment. Consequently, in November 1964 — just a year after entering the Dallas-Houston market — Trans-Texas announced plans to convert all 25 of its Convair 240s to turbine power. The engine selection was the well-proven Rolls-Royce Dart, which had demonstrated a fine record of reliability in many fine commercial airliners, including the Vickers Viscount and the Fokker Friendship (Fairchild F-27).

The first Convair 600, as the turbine-powered CV 240s were called, went into service on March 1, 1966, on the Houston-Beaumont-Dallas route. Once again, Beaumont had the honor of welcoming the first Sibre Cloud, as Trans-Fexas called the rejuvenated planes. By this time, the network had been considerably strengthened as 31 cities in Texas and New Mexico were transferred from other airlines in the Southwestern Area Local Service Case. Traffic was further stimulated by the withdrawal of Eastern Air Lines from the stopping route between Houston and New Orleans, leaving T.T.A. with a virtual monopoly of service in southern Louisian.

The year 1966 was certainly a banner year. Earl McKaughan trumped his own ace by adding Douglas DC-9-10 Pamper Jets on October 30, 1966, thus enabling Trans-Texas to match the competition on the busy "Texas Triangle" (Dallay/Fort Worth, Houston, San Antonio). By this time, on August 17, the C.A.B. had, remarkably for a local service airline, approved a foreign route from southeastern Texas border cities to Mexico, serving Monterrey, Tampico, and Veracrue).

## New Ownership

Pride came before a fall. The almost simultaneous introduction of the Convair 600 Silver Clouds and the DC-9 Pamper Jets, plus foreign service to Mexico, was expensive. The seven DC-9s ordered in November 1965 had alone cost \$51 million — no small investment for a local service airline — and the finances of T.T.A. began to decline during the late 1960s. It came as no surprise, and in some quarters was regarded with relief, when, in 1968, Minnesota Enterprises, Inc. (M.E.I.) purchased a controlling interest in the airline.

The new owners started off in fine style, by opening service to Denver, which was not only an important traffic hub, but the center of a fast growing winter vacation area. The growing popularity of ski resorts in Colorado was attracting many Texans, weary of the long humid summers of the Guil area. Nonstop service to Denver, from both Houston and San Anionio, started on March 1, 1969. One month later, an extension from Denver to Salt Lake City brought the number of T.T.A. cities to 70. Also, nonstop San Antonio-Dallas service was added, thus completing the "Texas Triangle."

The airline was spreading its wings, and, as if to signal a new era, the new owners changed the name of Trans-Texas Airways to the more ambitious, and strictly more representative, Texas International Airlines.

#### Texas International

The official date of the adoption of the new name — quite a rare occurrence in U.S. airline circles — was April 1, 1969. One of the minor reasons for the change was the expectation that the unfortunate interpretations of the T.TA. initials would disappear. But Texas traditions die hard, and the airline still had to win its spurs. One small difficulty was that another airline, Trans International.

Airways, also claimed the obvious T.I.A abbreviation, so TXI was adopted instead and this quickly fell into common use. The new Houston Intercontinental Airport opened on June 8, 1969, and a TXI DC-9 was the first to land. This event coincided with the introduction of full meal service, an amenity which many Texans felt was long coverdue.

The new owners must have been well satisfied too with the generosity of the C.A.B. in awarding to Texas International nonstop authority from Albuquerque to Los Angeles. Through service was duly inaugurated on January 15, 1970, with the newly-acquired Douglas DC-9. 30s, the "stretched" version of the Douglas twin, fitted with 100 seats.

In spring of 1970, W. Lloyd Lane was appointed president of Texas International, replacing Robert Shere. One of his innovations was to attempt to reconcile the variations in traffic density on the complex TXI network by introducing smaller aircraft. A number of stations had survived the "Use It or Lose It" test, but only by a small margin. Texas is a large state, but the proliferation of freeways everywhere across the mainly flat terrain had effectively shrunk surface journey times, and in so doing, had eroded some of the local service airlines' traffic base. TXI tried to match the diminishing demand selectively with smaller aircraft.

During 1970, a fleet of five 15-seat twin-engined Beech 99s was introduced to serve certain routes in east and central Texas, including Lufkin, Longview, Galveston, Victoria, Temple, Waco, and Bryan. The aircraft, however were unsatisfactory and were in due course retired.

Although a nonstop Houston-Monterrey route provided direct access from the bigsest city in Texas to the third largest in Mexico, the expected revitalization of the renamed Texas airline did not go according to plan. Indeed, the finances were in poor shape. TXI was openly discussed as a candidate for a take over bid, and there was even talk of its demise.



A youthful Frank Lorenzo took over Texas International Airlines in 1972 at the age of 32. A merger with Continental Airlines 10 years later removed the "Peanuts" airline name from the skies but its place in aviation history was assured.

Photo by Walt French

#### Frank Lorenzo Moves In

The first stirring of activity affecting Texas International's fading fortunes was in May 1971, when William M. Wyant, Jr., and Associates, representing 30 individuals, asked the C.A.B. to approve the purchase of 40.7 percent of Texas International Arinhees stock from Mirnesota Enterprises, which had bought the shares in 1958. Hardly had this news been circulated when, on June 7, TXI revealed that it had accepted an offer from Jet Capital Corporation for a comprehensive refinancing program.

Jet Capital, founded in 1969, was headed by Frank A. Lorenzo and Robert J. Carney, two young ex-Harvard Business School graduates. They proposed to purchase



T.T.A.'s selection for the DC-3 successor was the Convair 600. This was basically the Convair 240, but re-engined with Rolls-Royce Dart turboprops. It is seen here in Texas International colors.



the complete Minnesota investment, at the same time injecting new equity capital. At the conclusion of the refinancing peogram, the total equity funds were calculated to approach \$40 million.

Although Hughes Answert mode a counter offer in November 17th, the formal announcement was made by TXI on December 9 that Jet Capital would invest \$1.5 million, and thereby earn the prolege of nominating the majority of members of the board. Minnesota Enterprises thereby lost control, 4d Capital formology applied to the CAB, on January 19, 1972, for approval of the plan. Although Hoghes continued to fight a resemporal action produced to the control of the control of the plan. The

On August 10, 1972, the C. A.B. approved the acquisition. By its new inventment, added to the purchase of existing stock, led Capital insurance 59 percent of the conting control. Fasta Lorenza, again, 31, the main absentance of the control of the strends of the control of the control of the control of the cutrent. Lorenzo 5 linearies and managerial basicies was certainly just to the test. Between 1968 and 1971, TOM creation of the control of the control of the control of cutrent control of the control of the control of cutrent control of the control of the control of cutrent control of the control of cutrent control of the control of cutrent control of

During this expanition manuscens, nothing such has period of any grate consequence in an affire that was simply tring to star sides. Lloyd Lane resigned on Manuscens and the star sides of the star sides and the star sides and notified an additional star sides and the sides and the star sides and the star sides and the star sides an

deficiencies in Pan American's existing services; "Nonatop Houston Mexico City service lessan in December 1972, twice delly with DC 9-30s. In March 1973, two more of these sizerant were ordered, the first new jet equipment to be added since 1999.

During the early 2970s, rison changes were made to the router retined. The Harlingers Bespico Venzour between the router retined. The Harlingers Bespico Venzour route had been temporarely asserted in 1971, but was sestored on Golden 1, 1974, with the modification that resistance of the property of the modification that the modif

#### The Mouse That Roared

Frank Lorenzo and Teasa International Afrinesh it he headlises with considerable impact in 1978. Late in July of their year, the mean broise that TXI was moving to take control of Notional Afrines, it trush carrier based in Mami which was there times its size. Lorenzo had already acquired of 2 percent of National stock, and now already acquired is forced that he was coming to acquire a further of the control of the control of the control of the 28 percent, enough to sain control in a National spin 28 percent, enough to sain control in the Astronal spin 20 percent.

The idea not with a mixed reception in Massi, Maistonal, Achirman, L.B. "May "Mayda, was less than enamoned, and sought the backing of lowestors to bear off the stack, will come the property of the common the property of the common the property of the common the property of the propert

display of irritation in the public interest, had threatened to close down the airline fly withdrawing its certificate) if a protracted strike was not setfled. Now, the employees were disencianted with the Mayton regime, even going to the length of publicly supporting Lorenzo's proposed in a staff newsletter with the beadline "Take us, we're yours!"

The C.A.B., while moving towards more progressive and flexible policies in such matters, was nevertheless. anxious that all the proprieties were properly observed. Now the concerned departments of that august body. while used to well-mannered orthodoxy and a respect for profilion, and the implied recognition that everyone in the industry should know his place, were prepared to move with the times. Formerly, the established division between trunks, locals, and commuters were rigidly followed, with the unspoken, and certainly unwritten, implication that the airline world revolved around United, American, Pan American, T.W.A., and Eastern. Now, however, when a regional airline (still a local service carrier in C. A.B. terminology) (Integratemed to take over a trunk, it was no longer met by a display of apoplexy in Washington. In fact, the C.A.B. could be described as progressive, trying to remove legal roadblocks. True, it was mildly disturbed that the proposed setting up of a voling trust to control the share transactions would in some way violate the Federal Aviation Act of 1958. But the problem was never serious.

While the C.A.B. was numinating over the affeir Texas International carried on with its acquisition, and paid \$1.4 million for additional National stock. Sy September 1978, Lorenzo controlled 20.1 process; which was very loss to a controlling interest. There was an interesting precadent set in this case. Probably nobody had ever thought of it before, or possibly the unwritten understandings among the hierarchy of the Air Transport Association had never counternancedit. But this was the first time in the history of the regulated airline industry that a certificated airline had asked the C.A.B. to approve a nonnegotiated control over another certificated certificated control over another certificated control over another certificated certificated

Texas International was not the only sirline interested in acquiring National. Two decades previously, Pan American had toyed with the idea. The two eitines had signed an asymment on September 9, 1958, for an exchange of stock which would have given Pan Am 25 percent of National's and National General of Pan Ams. The C.A.B. dicided, however, that such interlocking interests would set too denegrous a precedent and on July 18, 1969, ordered the two airlines to divest themselves of each other's stock.

Pan American's action was consistent with a long-felt instration of being demed the right to operate domestic routes. Juan Trippe had, during the formative years of his arrims, and subsequently throughout the period of intercontinential and ocean conquest during the 1990s, cherished the ambittion of linking the Pan Am guiteways at New York, Marm, San Fennisson, Seattle, and elsewhere. His dismay at having to hand over throming passengers to domestic airtitus was balanced by his estitistication of the transfer of outgoing ones. But there were occasions when a traveler would have to interrupt a

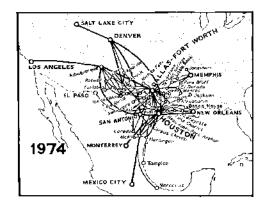
sud-to-end Pan Am iourney by using a connecting domestic flight in between I flowers the C. All took the view, as rid President Roossvelt, that if Pan American was to enjoy the privilege of being the chosen instrument for U.S. overseas air transport development, such toterance of a virtual monopoly should be reward enough. Trippe should not expect to have his cake and eat it loo.

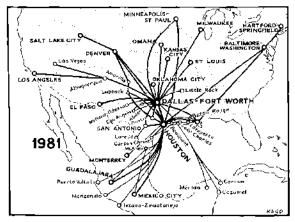
The C.A.B. resection of a Pan Am-National affinition in 1960 did not prevent Juan Tripps from confiniting to advocate his case for domestic routes whenever the occasion arose; and the industry as a whole was well acquainted with the burning deairs of Pan American to try to link its galeways, at the very least. The C.A.B., in fact, eventually modified its rigid stand, and permitted Pan Am to operate between New York and California, with the strick restriction, however, that westbound passengers on this segment must be destined for trans-Pacific travel or exactoound for trans-Pacific travel or exactoound for trans-Admite, thus preserving the strict resourcing on the segment must be destined for trans-Pacific travel.

When, therefore, in 1978, National Airkinas suddenly appeared ready to be taken over, and with the Civil Aeronautics Board heaft preparing for its own demiss and accepting a severe erosion of its power over mergers. Pan American leapt into the frag, and made counter-offers spaint fexas internationals. The "World's Most Experienced Airbin" demonstrated remarkable naives in its approach to the problem and failed to assess some of the more obvious drawbacks. National, for example, was a major Douglas operator, with fleets of both typen of DC-10 as well as DC-5s; Pan Am, on the other hand pedominantly benipg-oriented, had selected the Lockheed Tristat as its three-engined wide-bodied let. So there was a chronic drugbeation of aircraft types.

National's number one route was Marri-New York, which certainly inked two important Pan Am gateways. But with air fine deregulation just across the horizon, it was open season for new entraints into one of the elificationships and lacratine "gravy urus"; and in any creas. Eastern was the dominant carrier Furthermore, much of the need for stateway linkage had disappeared with the probleration of nonstop and direct routes across the Atlantic and the Caribbean. Pan Americans craving for National, in fact, assens to have drawn as much from emotional memorises of a forms arabition, made in an enfirely different competitive environment, as it was from balance do business sudgment and analysis.

For whatever reason, in September 1978 Pan American Airways negotiated to purchase National Aidmen for 3500 million. In short order, Pan Am peak J IBS million to Texas Intermediates for 2.1 million shares. A calculation of the latter's involvement revealed that Pleasa Intermediated 454 million in pretax profits on the transaction, because of the appreciation in share valve during the negotiations. This enabled Texas International to announce a 1979 net profit of \$41.4 million on revenues of \$234.2 million. Such an injection of cash was useful, to put it mildly, it gave Lorento the flexibity to invest in feet and route expansion to a degree which would have been impossible if TOM had been walking the tightope of financial viability. He could invest in new routes, new aircraft, even new airlines.





Growth of Texas Interpational, 1974-1981. With the change of mane, the Texas local service airline expanded into Mexico, suspended absorbt all its about routes, and, after deregulation, opened intercity routes to become a national, rather than a regional, airling.



During the 1970s, the Douglas DC-9-30 became the most popular twin-jet airliner in the United States, and was a great favorite in Texas.

## **Texas International Expands**

Under the Airline Deregulation Act of 1978, Texas International, in company with every other airline in the United States, took the opportunity of entering markets which had been previously denied under the old C.A.B. systems. By the end of 1979, Houston and Dallas both became large hubs for TXI routes to Mobile, Baltimore, St. Louis, Kansas City, Tulsa, Oklahoma City, and Las Vegas, Dallas also received Los Angeles nonstop service. Houston became a Texas International foreign gateway to additional points in Mexico: Guadalajara, Mérida, Cozumel, and Cancun. Some of these new connections, for example, to Tulsa and Mobile, as well as older routes to Wichita Falls and Brownsville, were deleted within a few months; but such flexibility was one of the advantages of the new deregulated system. In the old days, both the additions and the deletions would have taken years to accomplish through the C.A.B. procedures. The litigation costs both to the airline and to the government agency would alone have been a deterrent.

#### Peanuts Fares

During the mid 1970s Texas International met with increasing competition. Although some of the certificated carriers were deserting the Texas markets, the intrastate carrier Southwest Airlines, directed by the remarkable Lamar Muse, was making a killing by saturating the heavily traveled "Texas Triangle" with low fare service.

This was an intensely local affair. Southwest Airlines operated under the jurisdiction of the Texas Aeronautics Commission. But whereas American and Braniff, for example, had many other avenues for market development, Texas International's market was concentrated in the Lone Star State.

Lorenzo moved emphatically to match the opposition, now expanding into markets outside Texas. Early in 1977 the famous Peanuts fares launched an air fare war conducted with considerable dlan. To the amazement, and offen to the amusement, of rival airlines, the Peanuts fares were set at about 30 percent lower than coach. There was mixed reaction. Texas International lost some revenue on routes which might have supported the coach class fare; but it claimed much more from newly-generated traffic which might otherwise have traveled by surface transport, including the automobile. One indirect effect was that it completely changed the old-fashined TTA. Image to that of an aggressive airline that was not afraid to make courageous marketing decisions.

Such was the success of the Peanuts fares that it started a new trend of low discount air fares throughout the U.S. In the past neither T.T.A. nor TXI had laid claim to any significant innovation, although it was in the forefront of re-engining the Convair twin. Now, leasa International, by Jaunching the first of the deep discount fares,

was an impovertor, and carved a place for itself in certificated airline history.

On August 8, 1989, Texas International purchased 20 McDonnell Douglas De-390s from Swissian and Austrian Aritimes at a cost of \$135 million. This worked out at less than 57 million per plane which, although possibly on the high side for an average twin-engined, deprecised jet, was nevertheless a good bengin, as the sirrent had been super by maintained by two of the most highly respected affiles in Europe.

#### Organizational Changes

An important sites diffecting the component attempth of Enact International was made early in 1980, when Texas Air Corporation was created as a huiding company owning 100 percent of Texas International, Lorenzo had made construes to the Civil heronautics Board to enter the New York-Weshington air shuttle market. Freeziom of entry of new domestic sinhine was an essential feature of the Afriline Deregatistion Act. Accordingly, a new airline, New York Air was formed by Texas Air By this move, Lorenzo entered the dense intercity markets of the Northeast. New York Air opened a New York (La Guardia)-Weshington (National) shuttle service on December 19, 1980, paralleling the well-established Eastern Shuttle, and later added further routes to other sastem stites.

In June 1980, Texas Air became the parent corporation of Texas International Airlines in a share-for-share exchange of stock. The year 1981 witnessed further consolidation and expansion of Texas International, Harry T.

Chandis had been appointed president and chief operating officer late in August 1980, but with Frank Lorenzo remaining as chairman and chief executive officer, as well as being president of Texas Air, there was no doubt as to who was in control of things within the whole organization. New routes continued to be added on a systematic basis. On January 31, 1981, without much ado, Dallas as well as Houston received direct service to the Yucatan resort destinations to take advantage of the booming tourist trade to the Mexican Caribbean. New services began on the same day from both Dallas and Houston to Minneapolia, while Milwaukee became a Texas International station on April 1, developments which would have been beyond anyone's imagination in prederegulation days. The sirling went on to give further evidence to justify the "International" part of its name when on May 21, 1981, service began from Houston to Ixtaga/Zhwatanejo. Manzanillo and Puerto Vallarta, on the Mexican Pacific Coasi.

Henceforth, housever, such developments were eminor signes in the chronology of TXDs affairs. Within a lew mouths of its incorporation, it had, by the end of 1980, sequired 4.29 percent of the stock of Continental Airlines. Like the proverbial cloud no bigger than a man't hand, the signaled distant storm clouds shead. With the National Airlines affair, Fronk Lorenzo had tasted the National Airlines affair, Fronk Lorenzo had tasted the Houver of tunk airline operations, had tested the Emperature of the corporate waters in that arena, and found them to his litting. He was now preparing to take his pince as one of the most controversial personalities in the United States airline industry, as he embarked upon another corporate venture which shook the entire U.S. industrict on its foundations.



# 15

# Born Again

1982-

#### An Airline in Disarray

If All Federach task in taking over the Continents of presidency had been efficient in 1980, Grossy Worlds problem sas well eight neckedule in 1981. He took over the presidency of Continental Advises had only sider his problem sas well eight neckedule in 1981. He took over the continents of the continents is a company but had been to be a company to the continent to the continent to the continent in the continent is the continent to the continent in the continents of the cont

Of the \$1 years of Robert Sisk overloadsbip, Continmental had made a profit in \$42, a record of which almost any company, inside or outside the airline industry, would be proud. It had been activated by "Doing What II Did Best" (to borrow a slogan from another airline) that is, to provide superb cuttomer service. There was method in the intensity of Continental approach in this respect. Quality of service was one of the very live airline architecover which neither the C.A.B. nor the rival airlines had used described to the continents of the continents of the consense described to the continents of the continent

During prederegulation days, the Civil Aeronautics Board conscientiously adhered to the principle of upholding the unirit of competition, and was obliged to do so within the terms of its charter, but this was something of a sham. To all intents and purposes, there had been little competition in lares. In the complex system over which the C.A.B. presided, an individual airline could seldom gain a clear advantage. By facit consent of the Air Transport Association, the passenger paid the same fare for a given lourney, irrespective of which airline he chose. Equally, there was little competition in aircraft performance, which governed increasy time, nunctically, and on time residarity. An airline might usin a temporary advantage by introducing a new, faster, or larger type: but the competitors soon matched it, much in the same way as they matched the fares. Helpless to break free of these restrictive deterrents to competition. Six and Continental made the best use of the limited freedoms open to them. Those were in the fields of marketing the product, i.e. selling an airline seat, and in producing it in the most efficient manner. Le. reducing the cost of flying that went

Six instinctively sought those areas of marketing where the C.A.B. could not interfere, and for many years he pulled oil a series of premotional coups which was tained. Commental through an era of prosperity. Few old-timers in the airline business today would deep that the old Continental was never surpassed in selling air scansport to a discerning public. Throughout its history, if pursued marketing strategies which promoted the company as the firmet, if not the buggest, in the U.S. domestle indestry, While not necessarily the first with a new innovation. The latenching of coach force, for example. Continental was always attracted of the leadness, its air rath was always the brightest and cleanest; its light deck and rath process were always in smartest; the amount interface where the processor and the processor of the leadness of the lea

At the same how, Costimental's operational off control was a watchword in the industry in that aspect, it was an introduct, for it was the first to introduce the progressive maintenance system. Disciplined efficiency in ottal areas of routine maintenance and overhall, disting back to the geers of Stan Shatto were translated, into lower unit costs.

This combination of good revenues and low costs had served Continental well through the years. But the probiem beginning in the 1970s was that the margins had become water thin, in predersculation days, the unit revenue rates earned by Continental were not substantially different from anyone else's; but the advantage which it had previously held through its aggressive promotion had been eroded, simply because the other airunes had gradually caught up by launching marketing schemes of equal effectiveness. Costs too had inched up, mainly through increases in wages and salaries and the cost of materials; and the intense logalty which was selected in the average tangently of the employee roster. had an unfortunate effect. Continental's average pay scales were on the high side, simply because of the seniority of its stall. Furthermore, as with the commercial promotion, the rival airlines had become as efficient as Continental

We Continental continued to add services to on already weak statem, not so much simply to expand, but rather to build a defensible rathe structure around Deniver and Houston, while there was still time. During the latter part of 1961, sowen more celes were added to the domestic network: Salt Lake City, on September 15; Pensacola, on October 17. New York LD Guardon, Louisule, and Green Bay on October 25. Tampa and Oziando on December 1. One other important destination added during the year which was potentially profundle was a second Australian city, Melbourne, on October 23. Al least the revenue rates per mile on international routes, combined with the flow unit operating costs of the DC-10s, held out hoses of breaking even.

Resistance to the Frank Lovenco take-over his ended on November 25, 1981 when, with 50.8 percent control of the stock, the Texas invasion was Irrevicably complete. The Continental board of directions "conflued that it was in the best increasts of the company and its stockholders to cease resistance." Continental's board elected three Texas intermational Anilier normines to the board. John Robson, a former C.A.B. chairman and denegatation advocate, was one of them. An objective review of the oillness position in late 1781 raises the question as to what collecting in my the Continental directions migra other what collection was not extended to the continent and continents.

wise have pursued except cooperation with Texas International. With costs as high, if not higher, than any airline in the inclusive, the stall, almost hom top to bottom, were still claiming more remuneration. Yet traffic was danger odely near staggation; point, revenue raries were declaing, and cash, resources were seriously depoteted.

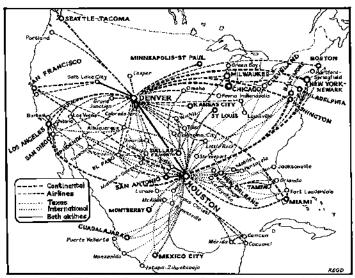
mag, and tests resources were extended operations. The Continental was going downfill, bit great visions, was fullyteningly client from the year's results. The year 1990 had been bad enumyle, with \$60,000 in the year even after allowance for about \$56,000,000 in special gains, Now, the 1991 figures revealed a not loss of \$60,000, even after taking credit for \$40,000,000 in tentual palies.

Levenzo's action in secking control must have stemmed. from an inburg dense to seek eyer new challenges as a way of life. Having transformed one aiting airling. Texas-International, from a loser to a winner, he now took on a giant problem; which many thought was brown than he or ancone else could hamille. But there is little doubt that had be not intervened. Continental would have died on its feet, overcome by the forces of competition in a mathiess, deregulated struggle, with no holds harred and no quarter given. The large airlines (through the inbuilt economic advantage of sheer size) and the new authes (through the economics of employing lower paid staff, and selectively choosing only the best routes on which to contracte): both of these groups were sourceard Confimental out of its protected position. Of all the trunk airlines of the prederegulated era, Continental was, in fact, the most vulnerable. It had not built a protected traific hub, as did Delta. It had not adequate a controlled. costs in recent years as did Northwest, Moreover, I was not blessed with a route system in a less competitive area. of the enantry, as was USAir. Its main traffic corridor was petween California and Texas. These two states were the homes of several intra-state, low-fare airlines, and three of them, PSA, MuseAir and Southwest, moved with alactiny to usurp Continental's birthright

## Birds of a Different Feather

This King is Deady Long Love the Kingl The traditional rose of proclamation implying the continuity of the realm was not exactly an in the case of the two strong personalities ingaged in the transfer of power at Commental The two man, Bob Six, retining after 43 years at the belind at the age of 74, and Frank Lorenzo, aged \$1, taking over the uses after only the special in charge of a smaller arrive, were as officered as while and choose.

Six was extrooved, well-condition, and aggressive A large man in outhy sense of the term, his language was direct, sometimes professe. The office immutative ordinary which his words immunity was smalledly direct, and he had the gift of inspiring and stimulating his team of Continents. He cid not suffer foots sidedly, and for people know of his displeasars in no unpartitud terms. He was made in the word, but refluctant to admit middles, the was much respected throughout the industry, not for any profound insight, but for his often courageous stand against what he perceived to be self-awaring cidt by his peers. Working with the regulated system throughout his truther of office, he was more often right here aware, ble fought against brillos deregulation from the moment that specter recerd is head. His stand on this sobject was set subject was set.



Continental-TXI Marger, 1982. After a hitterly-disputed surger, the surviving Continental Airlines became a major trush airline.

much instinctive as analytical as he had never shonned competition.

In contrast, Lorenzo was a more private individual. While Six would make an intuitive decision, and act impetuously upon it. Lorenzo would analyse, consider the options, dissect a problem into its essential parts, and with careful timing, act with surgical precision and incisiveness. Whereas Six would react vehemently to criticism, real or imagined, Lorenzo would show little sign of outward irritation - although his subsequent course of action would reveal that he had not ignored the commentary. Six was almost married to Continental, but his domestic family life was patchy, and only after two false. starts did he find a partner in life who understood, tolerated, and supported his life style. Lorenzo, on the other hand, is a dedicated and sensitive family man, in spite of intense preoccupation with the clinical diagnosis of the financial ills of the companies which he leads, and a dedication to curing their ailments. Six was an autocrat, running the airline almost single-handedly, while Lorenzo respected the organizational lines more and delegated responsibility to his trusted executives.

But in some respects, the two men were alike. Both

were men of their respective times. Neither was atraid of man or beast, bureaucraf or banker. Lovenzo could not have applied his special skills effectively during Six's era; and the reverse was also emphatically true.

## The Big Merger

On July 13, 1982, the stockholders of Continental and Texas Air Corporation (the parent company of Texas International) voted their strong approval of a merger of the two companies. The previous March a new Continental board was elected and was comprised exclusively. of nominees of its largest shareholder. Texas International Officials then declared their intention to synchronize the operatume to eliminate inefficient redundancies. Six months beforehand on January 25 - exactly two munths after Continental had declared the fight over and elected three Texas International representatives to its board — a "prosperity plan" had been appounced. This was a nice aughernism for drastic cuts in costs and staff, One employee continued to resist the inevitable layoff. Robert Six still made frequent appearances at the Continental offices. His influence on the direction of the airline's affairs, housever, had evaporated.

The merger came as no surprise. Observers of the US wifine scene had been under no Busion as to the US as the scene had been under no Busion as to the US as the scene had been published by both adjines, with almost identical covers, with the slogan "Together We're Ewen Better." The map veside showed the two networks neatly superimposed, dramatizing the two intensive hub soutement of Denver and Houston.

In August, on agreement with the pilots was reached. rationalizing the two contracts, and paving the way for other employee agreement rationalization — at least that was the intent and expectation. In October 1982, the financial merger was completed, under the chairmanship. of Frank Lorenzo, Even though his Texas International had been the driving force behind the merger Continental Airlines remained as the surviving name. This was an indication of the Lorenzo approach: there was no overfrom as to which was the more manketable as a national product, large though the name of Texas may have loomed in the Lone Star State and to its neighbors. Had the position been reversed. Bob Six would probably have invented a new name, had the fleet of 130 sircraft repainted, together with all the ancillary equipment and office buildings, and reprinted every sheet of paperwork. from the tickets to the toilet rulls. Larenzo's choice of name was also a sign of his respect of all that the Continental name stood for: Superb customer service. His aim was to reinforce this regulation with managerial discipline and financial acumen.

The effective operational date of the new autine was October 31, 1982. The new system was built around the former network of Continental, which was the larger of the two. Duplication of routes was eliminated and new points were inherited from Texas international: Cleveland, Monterrey, Hartford, Guadalaiara, St. Louis, Jacksorville, plus several points in Texas. Oddly enough, these last had once been served by Continental, and now rejoined the system. New domestic destinations were added: Great Falls, Billings, and Rapid City, while Maracaibo and Caracas, Venezuela, were picked up as South American destinations, as a fallout from the debris of the Brandf debacle. The interchange service to Alaska, which had been a casualty when the Continental-Western talks had fallen through, was resumed via Alaska Airlines, interchanging at Portland.

The new attitue was impressive. Its fleet consisted of 12 aircraft of only three basic types: 31 McDonnall Douglas DC-Nts (11 of the Dash 10s and 2 of the Dash 30s, for Pacific operations); 60 Beering 272s (45 of the 20st and 15 of the 100s); and 39 McDonnall Douglas DC-9s (22 Dash 30s, 17 Dash 10s), its node system stretched to four confinence.

Lorenzo and the managers he installed had a fight on their hands in more ways than one. Continental's finances had reached rock-bottom, and only the most austre approach to management, with unpalatable staff cuts and wager reductions, would have the slightness effect in reducing the chronic deficits which piled up every month. Only significant improvements in productivity could contribute to the rescue action. But as 1962 moved into 1983 and Continental Airlines made preparations to move its base from Los Angeles to its largest aperating bib. Hunstoon, losses mounted to record levels witness.

balked at further cost-cutting, and crisis point was reached.

## **Breaking Point**

As the months of 1983 went by, Continentals finances progressively worksond. During July, August, and Soptember, the company's losses exceeded \$50 million. By the end of September, load factors had dropped to less than 40 percent and the airbine was losing a million dollar, a day. As the summer months are normally the most profitable in the airline year, the prospects for the last three months were hornlying. Continentally menogeneral estimated that the five years 1979-1985 produced a cumulative loss, before special tiens and sale of assets, of half a billion dollars, mort than a quarter of which would have been sustained during the last six months of 1983. The charces of survival without a revolutionary change in the entire cost and revenue structure of the aidbewere next to non-existent.

The airline was faced with a Hobson's choice. If, as in the popul old days before deregulation, it stated farest to increase revenue, people would simply flock even more to the new low-budget airlines. It if lowered fares, the break-even passenger level, alk-eady impracheably high, wight so ludicrously beyond the maximum capacity of the aircraft.

The break-oven level was high because the costs were high, a major element of which was labor. Almost like a drowning man clutching the provertial straw, Continental sought to ameliorate the position through negotiation with the staff, in an effort to increase productivity and reduce ways.

But so strong was the resistence that, in response to an offer by Continental to rate wages by 20 percent in exchange for a 20 percent increase in productionty, the International Association of Mechanists (IAM) used no strike on August 12, 1983, By the time, Continental was, in a peak summer month, losing ball a million dollars, and the continent and applications of the continent and the continent and the continent and the continent and the continent was the continent and the

Lorenzo mode one final attempt to rescue a sinking ship. On September 14, the proposed to offer stock to Continentals 12,000 employees, with profit-sharing. As a bonus, four million shares would be offered, with options to purchase eight million at 35 percent of the market price through payroll deductions over two years. Employees would receive 25 percent of the strine's profits. The plan would result in the employees owning 35 percent of the strine's profits.

This offer was conditional upon an across the board agreement to reduce wages and sularies, and to increase productivity through fewer holidays, less vacation time, and other devices. The total cost savings were estimated at \$55 million per year. Of this amount, \$30 million would be required as concessions from the clerical staff, agents, and management, and \$20 million from the IAM represented employees. The remaining \$100 million was requested from the pilots and flight a tendance.

The deadline for the proposed plan was set of September 19. Stephan M. Wolf, who had become president and chief operating officer of Continental on Docember 1, 1982, resigned on September 21, 1983. Phil Bakes, a former Texa Air official, was elected executive vice mea-

# Texas International

SYSTEM TIMETABLE EFFECTIVE JUNE 1, 1982

# TOGETHER WE'RE EVEN BETTER





SYSTEM TIMETABLE Effective June 1, 1982

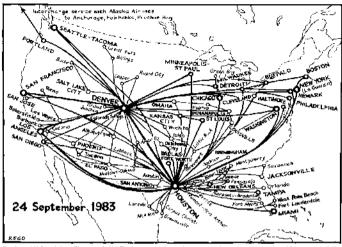
# Together we're even better.





Exhibit J. Texas International and Continental Airlines joint timetables.

ident and assumed the duties of chief operating officer. Frank Lorenzo and his team took the responsibility of trying to overcome the massed union opposition. With no readiness on the part of the pilots' union to compromise, Lorenzo took drastic action. The medicine already offered had certainly been unpalatable. But if the patient refused to take it as a last hope to cure a chronic ailment, major surgery was the only alternative.



Continental Airlines Bofors "Chapter 11,7 1943. The deviastating effect of the measures taken to associate the survival of Continental is vividly illustrated by this map and the one on the following page.

## Chapter Eleven

Al 6 pm or Saturday Suptember 24, 1983, Custifiner, tal Authors, crossed of riturnestic operations, as it filled under Chapter 11 of the Faciant Bankerupery Code or reasystatic the company. The filling was made under the jurabilitient of the U.S. Bankeruptey Court. Southern District of Texas. Transfrieds of the 12,000 employage were furboughed. Services across the Pacific, and to Mexico and South America, Newyer, were not interrupted.

As Lorenzo fold Business (Week about the need for the disease action of Chapter 11:

"There was no halfway procedure. There's no Chapter 51s, The company would have been out of cash in short order had we done nothing."

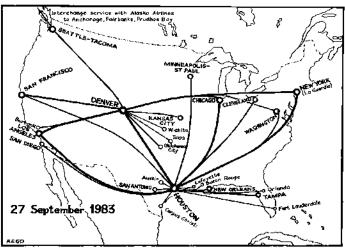
If this distaller shop had not been taken. Confinental could not have avoided going out of business altingether. The stockholders' equity, which was close to \$300 malion in 1979, had distalled to less non \$1 million. Common stockholders' equity slood at minus \$4 million.

On Tursday, September 27, 1985, Continental Airlines resumed domestic operations. Except for the appearance of its ancraft, the subsection of the appearance of its ancraft, the subsection of the appearance of its ancraft, the secondard United States its Continental William the mentioned United States its

served only 25 others, compared with 76 the previous week, 54% numbers were reduced from 12 00000 4,000 A, IDC 10, except for two on the Pacific route, were grounded. Had of the 100 Bosing 727,800s and DC-95 were packed on the Houston rating.

In an attempt to restore public patronage, and the good will of the travel agents lawfu had almost cassed to brook quatomers on Comment's flights rhump the days immediately before the bankruptor Sing). Continental offered of text day began basement ture of \$49.00 can awarents to perfect and \$75.00 calless from October 115, later extended to October 22. Sums saw this new fares policy as a despector extensity to attract cassengers to Continental, regardless of economic consecrations. In fact, the fairer package was the other half of the economic equations.

Lorenzo had once steered Texos International successfully through its financial problems partly by the doring Peonute experiment in 1977, and in so doing, had established by place in airbin thistory. His innovative pulicy then was comparable with a previous precedentsetting break in enthodox fares projex, in 1948, 1937. Carmichael, president of Capita, firthnes, had revolutionzed drifting crist structures throughout the U.S. by the



Continental Airlines After "Chapter 1)," 1963.

introduction of the Nighthaux crack fares. As with Capital's experience, the Peanurs fares had been matched by every competitor, and the so-called deep discount fares were applied across the nation. Now, Lorenzo recognized that every arithe in the U.S., with the protective clook of the C.A.B. removed, would have to come to terms with the new tariff structures. The doors had been opmend to a new breed of aidine. Continental had the Ries of Southwest, Nueschiz, and People Express (not to mention Pan American, tath his special galaxous)-block draiffs) breaking down its nack, without business, while the industry glants, United and American, were major competitors out of Derwer and Texas. There was no time to lose.

#### The Ultimate Clash

Labor-management colations in the United States airtime industry are still governed by the Rolliusy Labor Act, passed in 1926 (the same year the the Air Commance Bill was enacted) and applied to the admines from 1936 onword. The greany assumption mode in the application of the terms of the act was that it would operate in a cagalated, quosi-motopoly business environment. The passing of the airline Deregulation Act in October 1977 turned this entire Iranework into an anachroniem. With fares inevitably plurging in a free market, costs had to fake a similar dive, and these costs included labor.

Certain unions, however, felt that they were somehow

enempt from artine deregulation. Attempts by Condinental to bring the sides together had mer with procreatingtion, II not obstruction. Both the Ak Line Plots Association, (ALPA) and the Union of Fighs Attendants (UFA) declined to meet Continental's negotiating representatives on the very day when it field for benighengou, after a clear werning that such a drastic sleep was imminent if something could not be done at the eleventh hour.

The pilots union, ALPA, became the focal organization on the union isside of the dispute. While the other unious were as much involved in the basic issue, none fought its case with more veherence than ALPA. Continued altempts by Continental to meet the pilots for discussions, subsequent to the September 24 termination of operations, were met almost with contempt. Finally, at a meeting on September 30, the artornoy for ALPA-biter-national, serving as their spoketeran for ALPA, began the neeting by laying down four procordions which many company progretations would have rejected out of hand, in the event, Continenal accepted the preconditions with only minor exceptions.

The basic issues, however, wore the salary scales, the working conditions in an emergency — which Confinential now locad — and the privileges which were with the job. Continental proposed a package which ALPA had recently accepted from the bankupt Branf Arways, but this was refused. ALPA appeared to have another course of arrivon in mind.

At 2 a.m. on October 1, 1983, ALPA and UFA went on strike. The morning newspapers carried large union advertisements seeking public support. Pickets appeared at the Houston Intercontinental Airport at 7 a.m. the same morning, carrying placards and distributing leadlest, urging passengers to "THINK TWICE" before flying the New Continental Airlines. Apart from rhetorical statements of the obvious, neither the placards nor the leaflets explained what the pilots were striking for

The first poststrike negotiations were held on October 6. ALPA representatives would not present any definitive proposals, and Continental indicated that, in their absence, it could not continue further to waste its time. On October 7 it issued a new pilot employment policy. The terms were better than those already offered by Braniff on June 22 and accepted by ALPA. Bascially, they offered \$43,000 a year for a captain, \$28,000 for a pilot officer, plus a health insurance plan, company-paid short-term disability, profit-sharing, stock ownership, and work rules which had been standard throughout the industry for decades past. This stipulated 1,000 hours per year on the flight deck, although Continental pilots had habitually averaged about 620.

In spite of ALPA's attempt to portray the pilots as victims of a wicked plot to deprive them of their invelihood, crews and cabin staff responded to Continental's offer to the extent that the last day on which any scheduled flight was cancelled because of the lack of a complete crew was October 8— the day after the new pilot employment policy was announced. Many pilots and flight attendants, as instructed by the pickets, thought twice, and then turned up for work.

The next week was stormy, with claims and counterclaims ricocheting back and forth between the two sides. On October 11, Continental sued the international organization of ALPA for \$50 million, charging price fixing, refusing to bargain in good faith, and interfering with nonstriking pilots. This last was a mild description as there were reported incidents where physical violence had been used, reminiscent of the custom during the dark days of the Depression 50 years previously. Henry Duffy, president of ALPA, made an uncompromising statement against Continental, threatened \$10,000 fines on members who crossed the picket lines, and offered incentive payments of \$3,000 or so to striking pilots. Continental claimed such action to be in violation of the Railway Labox Act:

The Air Line Pilots Association finally made its counterproposal on October 14, 1983. It called for a temporary 7 percent pay cut from the previous salary that would reduce the annual salary of a senior captain to \$100,000, with a projected retirement income of between \$60,000 and \$100,000 per year. Including profit sharing and stock plans, ALPA wanted a guaranteed equivalent salary for senior captains of \$150,000 by 1985. It also filed suit against Continental for \$100 million.

Whether or not the timing of this proposal was related to Continental's plans is not known. For the record, it came the day after the airline, in an effort to stimulate traffic, had announced a new range of fares, to be effective on October 23. Examples of this fare structure, reminiscent of the Perunis fares of Texas International six years previously, were \$125 Denver-Los Angeles and \$150 Houston-New York. The difference, however, was

that these were first-class fares, and were in striking contrast with the \$382 and \$384, respectively, charged by the competition.

Knowing throughout the period of crisis that Continental Airlines was financially disabled, and was struggling desperately for its life, the ALPA proposals seemed completely out of touch with reality, and arguably designed deliberately to prevent any reasonable compromise solution. Not too many members of the public were to be found who whole-heartedly supported the ALPA case. Indeed, Continental Airlines was easily able to recruit staff at allevels, from mechanics to pilots with more than 20 years experience at other airlines. The majority seemed to take the view that the questionable insisting on a prederegulation way of life was not worth the agony of unemployment, and that their cause was better served by enthusiastically helping the stricken airline to get back on its feet.

#### The Long Road Back

When Continental resumed service on U.S. domestic routes on September 27, 1983, the map of the network was strikingly different from the one that had been so abruptly terminated three days previously. Concentration on the twin hubs of Houston and Denver was even more emphatic than it was before the shut-down. The two cities appeared almost isolated, and the nonstop Houston-Denver route was the only link between the two. All intermediate one-stop or multi-stop links, via such points as Little Rock, Tulsa, Wichita, Oklahoma City, and others, had disappeared. Important population centers such as Dallas/Fort Worth, Boston, Jackssonville,



Chairman Frank Lorenzo and President Phil Bakes hold one of many news conferences during Continental's rebuilding process which turned the airline from substantial financial losses to record profits in the second quarter of 1984, less than a year after filling for reorganization.

Photo by Walt Frerck



Exhibit K.

Miami, Indianapolis, Louisville, and Portland had been temporarily removed. Cities in west and southern Texas, New Mexico, Arizona, and Newada, together with all those north of Denver, except Seattle and Minneapolis, were no longer on the Continental map, at least for the time beine.

Of all these deletions, the most surprising to outsiders was perhaps Dallas/Fort Worth, which had once been a key Continental junction point and access to which had probably been the main reason why Robert Six had once negotiated the merger with Pioneer Air Lines. The new policy, however, was matched to immediate traffic expectations, not to tradition. Continental could not now, while it was desperately struggling to remain airborne, afford to indulge in the luxury of long-term image-building. Dallas/Fort Worth was the headquaters and an important hub of American Airlines. There was no point in risking a head on battle for traffic there, at the same

time diluting the hub traffic at Houston.

This skeleton network was the start of a long uphill pull to rebuild a shattered airline. At the end of the first week, Continental was operating only 39 percent of its former passenger-miles. But significantly, this percentage was being operated with 400 pilots, or 28 percent of the former roster of 1400. Furthermore, the average captain's salary had been slashed from \$83,000 to \$43,000, or by almost half. Continental's new breed of flying crews were thus operating, in cash terms, at about two and a half times their former productivity level. By November 15, when access to Portland was restored, and frequencies increased on other routes, Lorenzo was able to state that Continental was flying almost 50 percent of its former capacity.

Improvements continued. On December 16, when a two-tier pricing structure was introduced (retaining, however, the low fares in force soon after the launching of the "new" airline as the "off peak" levell, Denver was once again finked with Sall Lake City, Color ado Springs, and Mirmeapolis. On Jenuary 4, vectorion flights to the Mexican Pacific Coast were augmented by a Houston-betape route; and on Jenuary 15, 1984, Denver-Pheenix and Houston-Miamir routes were added. Continental was now fixers 55 percent of its president canacity.

Throughout the combinder of winter and into spring and summer, Continental continued its rapid rebuilding. In February, Omaha was brought on fine, while Detroit and Philadelphia joined the artifee's domestic system on March I, By April I, when McAllers, Texas, became part of the Continental notwork, the airline was flying 85 percent of its systemwide canacity.

In June and July, Continental added five domestic cities — Abuquerque and Ontario, Caffornia, in June and Dallas/Fart Worth, Boston, and San Jose in July — bringing the number of domestic cities served to 40 and pushing capacity to 107 percent of the level Bown prior to recognizing domestic operations rine months eabler. Pensacols service began August 1 and Milwaukse and Cincinnal were added Sentember 5.

Throughput the reporstruction period of the domestic network, the oversees routies continued without interruption and even grew during the first six months of 1984. On Merch 18, Continental inflated nonstop service between Guam and Tokyo and then followed that with nonstop flights between Honolulus and Guam on March 31. To feed those noutes, the airline than added a San Prancisco connection with additional frequencies through Florolulus to the South Pacific more than doubled Continentials Pacific service. But the international expansion did not send with the San Francisco contection. On Judy 1, Continential added service to Hong Kong and Taipei through Guant and added service to Hong Kong and Taipei through Guant.

The increased Pacific service required the acquisition of more equipment, and during the first part of 1984 Continental acquired two more long-range DC 18-30s, estimated acquired two more long-range DC 18-30s, estimated as short term lease on three MD-88s for domestic service. The DC 18s not only increased the airfine's passenger capabilities in the Pacific region, but provided additional cargo space to that area of the world.

Rebuilding Confinental during the first part of 1984 brought moneyment and employees closer together. Through the establishment of participative menegement, are employees became an integral part of the siture's operators. And at the same time, Confinental management took steps to ensure that employees would share in the success of the company. A substantial profit-sharing plan and stock ownership plans were created. In addition, special incentive programs were instituted among non-management employees almed at rewarding workers for exceptional contributions to the company's operations.

Nothing, however, improved employee morals more than the news that in the second quarter of 1984, less than a year after filing for reorganization under Chapter II. Confinential Aniense recorded a net profit of \$10.4 million—the highest in five years—and an operating profit of \$27 million—the highest quarterly operating profit in Confinential highesty. The quarterly profit also meant that the arrine was profitable for the first six months of 1984. And Chaitman Lineago uwwed that Continential would be in the black when the books are closed for the yets.

# The Public Convenience and Necessity

During the abresive exchange of accusations which accompanied the bitter flight between Continental's management and unions, the voice of Frank Lorenzo was marted by comparison with other spotkesmen from both sides, Never given to imputise, and a man of carefully chosen words, his statement during the crisis weekend of September 24-27 might have been taken from a text-book on how to come to terms with the postderegulation airling world: "Continental patiently and valiantly tried to use the negotiating process to bring costs down to today's meriteiplace. Continental owen it to its abrateholders, employees, and, as importantly, its customers to make Comtinental cost-competitive and provide for its future—a profitable one."

Remarkably, these words were a reflection of much that the Cool Aeronautos Board had stood for during the years of its control from 1938 to 1978, when it conscientiously tried to carry out its mandate "in the public convenience and necessity." Careful examination of the C.A.B.'s record shows that it clearly saw the definition of the word "public" as broken down into three categories in exactly the same way as did Larenzo in the postderegulation era's absorbedders. Implicates the outer from the control of the co

Frank Lorenzo's hobby is long-distance romning, an unusual and possibly unique leistire accupation for an airline chairman. But he and Continental are showing every legin of possessing the stamina necessary to sustain a difficult course. And while, in the early stages of the deregulation race, the Houston airline seems to have failtered, this has been less through failigue than through a necessary reappoortionment of latent strength.

With the dramatic financial turnaround assured, news media headlines told the story best:

"Commental flies profitable course." Rocky Mountain News.

"The oirline that came back from the dead." The Australian.

"Comeback of a trimmer Continental." New York Times.

"Continental Air Soars Above Union Turbalence," U.S. News & World Report.

"Continental soars boldly into new eta." Cleveland Pluin Dvoler.

"Airline agoin sees a luture," Chicogo Tribune.

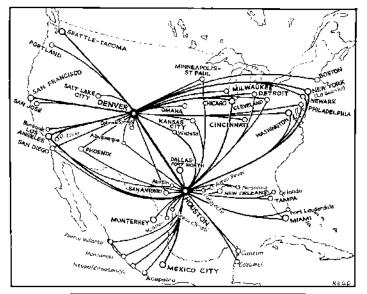
"Continental workers radiating optimism." The Houston Post.

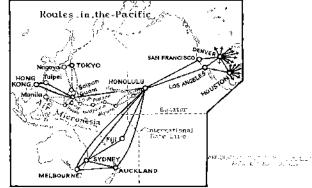
"Reborn Continental sams \$10 million." The Deriver

Post.

"Continental is coming out a winner." Business Week.

AG Continental Airlines celebrates is 50th anniversary, there are signs that, far from being the "ugly duckling" of the airline industry that It was painted in the fall of 1993, it is enterging once again as a "proud bird," unashamed of ks plumage, and with supreme confidence in its soliting to set a sendards of excellence for others to follow in 1984 and beyond:





The New Commencial, 1984. Comparison with the map of Continental Airlines after "Chapter 11" (page 95) shows the remarkable recovery made by Continental.

# Pratt & Whitney

The engines powering Continental Airlines' fleet of Boeing 72/s and McDonnell Douglas DC-9s and MD-80s are produced by United Technologies' Pratt & Whitney, the world's foremost designer and builder of jet engines for commercial and military aircraft.

Since its founding in 1925, Pratt & Whitney has produced power plants for more than 1,200 types of aircraft ranging from wood and fabric-covered biplanes of the late 1920s to the swept-wing, high-performance jets of the 1980s.

Today, Pratt & Whitney engines manufactured in Connecticut power nearly three-fourths of the commercial aircraft in service with some 250 airlines throughout the world.

The company's first commercial jet engine —the JT3 brought the jet age to commercial aviation powering the Boeing 707 on its maiden flight in 1988. Two years later an improved version — the JT3D — was introduced with higher thrust and better fuel efficiency. After nearly 25 years, the JT3D continues in service today powering 70% and McDonnell Douglas DC-8s on long-range routes.

Pratt & Whitney's JT8D, which powers Continental's 727 and DC-9 jetliners, is the most successful commercial jet engine in aviation history.

Ninety-five percent of all standard-body jetliners in the world are powered by JT8D engines. It is estimated that every five seconds, a jetliner equipped with JT8D engines takes off somewhere in the world.

Since entering service in 1964, JT8D engines have flown more than 225 million hours — more inflight service than all other commercial jet engines combined. The



Pratt & Whitney's JT8D-200 series engine powers Continental Airlines' McDonnell Douglas MD-82 transports.

JT8D fleet continues to accumulate more than 17 million hours each year.

The newest and most powerful member of the JT8D engine family is the fuel-efficient JT8D-200 series, which



Continental Airlines' fleet of Boeing 727s are powered by Pratt & Whitney's JT8D engines, the most widely used engine in commercial aviation history.

have been in service since 1980 as the exclusive power plant for McDonnell Douglas's MD-80 series aircraft.

The Dash 200 engine's increased thrust, with lower fuel consumption, permits the MD-80 to use up to 20 percent less fuel per seat mile than earlier JT8D-powered aircraft. Continental has two MD-82s in service and four more on order.

The largest of the Pratt & Whitney engine family is the JT9D, introduced in 1970 on the first wide-body transport to enter service, the Boeing 747.

The JT9D powers nearly 90 percent of all Boeing 747s, as well as versions of McDonnell Douglas's DC-10 and Airbus Industries' A300 wide-body aircraft.

The latest addition to the family is the fuel-efficient JT9D-7R4, an advanced technology version of the JT9D-7. Selected as the launching engine for the Boeing 767, 747-300, Airbus Industrie A310 and A300-600 jetliners, the JT9D-7R4 series engines offer a takeoff thrust—orpower—rangefrom 48,000 to 56,000 pounds, allowing airline operators to select the appropriate power for aircraft and route requirements.

Design improvements and refinements make the Dash 7R4 engine the most fuel-efficient member of the JT9D family, up to eight percent better than its parent engine. On a typical 1,000-mile flight, for example, the Boeing 767 twinjet will use about 35 percent less fuel per seat mile than the aircraft it is designed to replace.

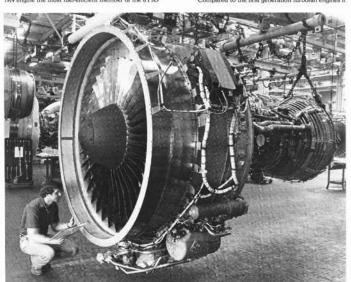
To help airlines reduce the costs of operating and maintaining their fleets, Pratt & Whitney is developing three all-new technology engines that cover the spectrum of thrust that airlines will require for at least the next two decades.

The key to all three of these new engine programs is the technology that Pratt & Whitney has developed during the past decade. This technology came together for the first time in the advanced PW2037 engine, developed for the Boein 757 airline.

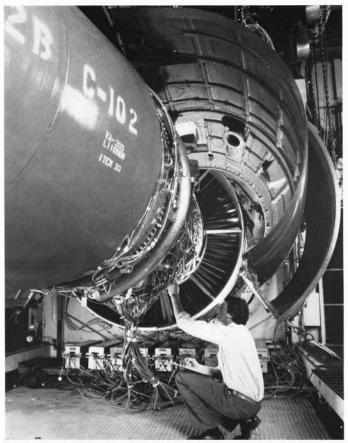
The PW2037 draws heavily on technology gained from the evolution of the JT9D engine and the Energy Efficient Engine program sponsored by the National Aeronautics and Space Administration.

The 37,000-pound thrust PW2037 engines uses stateof-the-art advances in materials, electronics, and aerodynamic design to achieve dramatic improvements in fuel efficiency.

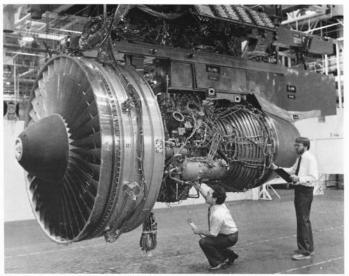
Compared to the first generation turbofan engines it



Pratt & Whitney's all-new PW2037 engine for Boeing's 757 transport.



Pratt & Whitney's advanced PW4000 engine has set new levels of performance in initial testing at company headquarters in East Hartford, Connecticut.



Pratt & Whitney's new PW4000 engine for wide-body aircraft will be available for commercial service in 1986.

replaces, for example, the PW2037 offers more than a 30 percent improvement in fuel consumption, a savings equivalent to about \$1 million a year per aircraft.

The technology incorporated in the PW2037 is being further advanced by Pratt & Whitney's PW4000 for current and new wide-body aircraft, including the Boeing 747 and 767, and Airbus Industries' A300 and A310 aircraft.

Radically new in design, the PW4000 will offer airlines operating wide-body jetliners dramatic economies in fuel consumption and maintenance. This new engine, which produces from 48,000 to 60,000 pounds of thrust, will be available for flight certification in 1986.

The PW4000 will be seven percent more fuel efficient than Pratt & Whitney's current best engine for widebodies, the JT9D-7R4. The improved performance of the PW4000 will save airlines up to \$1 million a year in fuel costs for every four engines they operate.

The PW4000 also offers airlines striking advantages in maintenance costs. For example, the new engine will have 27,000 fewer parts — roughly half the number found in current JTPD models. And the most commonly used sets of replacement parts will be about 25 percent less expensive to buy than JT9D parts.

To power a new generation of 150-passenger aircraft currently being developed or under study, Pratt & Whitney has joined a multi-national consortium, International Aero Engines, to design and produce a third new engine — the advanced technology U2500.

The V2500 will burn only half the amount of fuel of existing short-range aircraft, and will be 14 percent more fuel efficient than any currently available engine.

The V2500 will be certified in April 1988 at two thrust levels, 23,000 pounds and 25,000 pounds.

The 25,000-pound thrust engine will meet power requirements for both Airbus Industries' A320 aircraft and McDonnell Douglas's MD-80 series transports. It also is a candidate power plant for Airbus' four-engine TA-11 transport, which is under study.

The 23,000-pound thrust engine will meet power requirements for advanced versions of Boeing's 737 family and those projected for the Boeing 7-7 aircraft.

Joining Pratt & Whitney in the consortium are Rolls-Royce of Great Britain, Motoren-und Turbinen-Union (MTU) of West Germany, Fiat Aviazione S.p.A. of Italy, and Japanese Aero Engines Corporation.



The McDonnell Douglas MD-90, the newest Continental jetliner.

# Douglas Aircraft Company More than Fifty Years of Airline Transports

In 1936, Douglas Aircraft Company first flow the DC-2, the first production airliner in the lamous DC (for Douglas Commercial) series of airliners that led to the DC-10 to sets and the MD-80 twingers that are the pride of today's Continental Airlines flost.

That same year, Varney Speed Lines was organized, and from that grew the airline that today is known as

Throughout the history of McDonnell Douglas and Continental, the two companies' fortunes have been interstained. In 1944, Continental began Hymp DC-3s, the workhorse of the commercial aviation industry in the 1940s. Trans-Texas Airways, loar Texas International and mow part of Continental, began service in 1947, also

using DC-3s.

The relationship continued into the 1950s, as Continental added first the DC-6B, considered by many to be the most profitable four-engine piaton series reverbuilt, and later the DC-7s, the last of a long-line of piaton resine aritems.

In the 1960s, Douglas introduced the DC 9 inflines for short-hair routes. Continental way one of the earliest customers for that aircraft, and Toxas International was one of the all DC 9 airlines in the world. For many years, DC 9 Fundage, No. 1 flow in Texas International and Continental colors.

The DC-10 was added to the Continental feet in 1972, bringing wide cabin confort on routes within the United States, and to Hawaii, and later to the Pacific and Australia.

For the 1980s, Continental adds to its fleet the McDonnell Douglas MD-80, the most advanced jettiner is its class today, McDonnell Douglas is proud that this quiet, fuel-efficient jettiner will be ginning Continental on its 50th ammorrance.

And when a newer generation of airliners is needed for Continental to continue serving its pessengers, McDonnell Douglas will be there to build those simplanes.



Continental's DC-IB, the City of Chicago, the last and finest of the planes engine airliners.



The DC-10, the wide-cable flagship of Continental's fleet.







Trans-Texas Airways, later Texas International and now part of Continental, you be start in DC-3s.

