



NASA JET STAR SIMULATED SHUTTLE LANDINGS

First Series:

These test flights were made at the Dryden Flight Research Center at Edwards, Calif. Their purpose was to check out the Space Shuttle Landings Systems and were a prelude to the actual Approach and Landing Tests. The test Vehicle, known as Jet Star, is a subsonic jet transport. It was equipped with an electronic variable stability and control system that permits airborne simulation. This advanced aircraft has the advantage over ground based simulators in that it can provide motion and visual cues to the pilot while he is in the actual flight environment.

Each of the 41 test flights in this "First Series" had a crew of two. There were ten different crew members and in alphabetical order they are: Bill Dana, Einar Enevoldson, Fitz Fulton, Vic Horton, Gary Krier, Don Mallick, John Manke, Tom McMurtry, Jim Wilson and Ray Young.

ABOUT THE COVERS: Most of the covers in this series utilized the 13¢ government stamped envelope, due to logistics. In several cases, where that envelope was not used, the cover will be a 25¢ rag bond and franked with a regular 13¢ U. S. issue. All cachets are matching as in the illustration except for the flight data and cover number. That information differs on each cover. The entire cachet is by photo-offset printing to offer the collector a quality item.

VALUE: The values are fair retail prices at the time of this list (October 1977). The collector should remember that stocks of these, especially the early covers, are drying up fast due to the increase of space collectors from month to month. Prices are subject to change and availability. The First Flight cover is valued at \$3.00; Jet Star covers #2 through #6 at \$2.00 each; and Jet Star covers #7 through #41 at \$1.50 each. However, these covers listed are available from us only in complete sets. We did not do extras of any flight.

DESCRIPTIONS BELOW: We have listed the cover number, date of test flight, and last name of both crew members. The additional number in parenthesis is the NASA test flight number (but it does not appear on the covers since they are not in consecutive order. We felt it would be confusing but it is listed here for those that might want that additional information).

Jet Star cover #1 (#372)	Aug 11, 1976 a.m.	Mallick and Fulton
Jet Star cover #2 (#373)	Aug 13, 1976 a.m.	Mallick and Fulton
Jet Star cover #3 (#374)	Aug 16, 1976 a.m.	Mallick and Young
Jet Star cover #4 (#375)	Aug 17, 1976 a.m.	Fulton and Young
Jet Star cover #5 (#376)	Aug 18, 1976 a.m.	Fulton and Young
Jet Star cover #6 (#377)	Aug 19, 1976 a.m.	Mallick and Young
Jet Star cover #7 (#378)	Aug 20, 1976 a.m.	Mallick and McMurtry
Jet Star cover #8 (#379)	Sep 3, 1976 a.m.	Mallick and Fulton
Jet Star cover #9 (#380)	Sep 8, 1976 a.m.	Mallick and Young
Jet Star cover #10 (#381)	Sep 9, 1976 a.m.	Mallick and Young
Jet Star cover #11 (#383)	Sep 23, 1976 a.m.	Mallick and Young
Jet Star cover #12 (#388)	Oct 1, 1976 p.m.	Fulton and McMurtry
Jet Star cover #13 (#391)	Oct 5, 1976 p.m.	Mallick and Enevoldson
Jet Star cover #14 (#393)	Oct 6, 1976 p.m.	Mallick and Young
Jet Star cover #15 (#395)	Oct 7, 1976 p.m.	Mallick and Young
Jet Star cover #16 (#398)	Oct 13, 1976 p.m.	Fulton and McMurtry
Jet Star cover #17 (#400)	Oct 14, 1976 p.m.	Fulton and McMurtry
Jet Star cover #18 (#403)	Oct 19, 1976 p.m.	Mallick and Horton
Jet Star cover #19 (#404)	Nov 3, 1976 p.m.	Mallick and Enevoldson
Jet Star cover #20 (#405)	Nov 4, 1976 p.m.	Krier and McMurtry
Jet Star cover #21 (#406)	Nov 8, 1976 p.m.	McMurtry and Fulton
Jet Star cover #22 (#409)	Nov 10, 1976 p.m.	McMurtry and Krier
Jet Star cover #23 (#412)	Nov 16, 1976 p.m.	McMurtry and Krier
Jet Star cover #24 (#414)	Nov 17, 1976 p.m.	McMurtry and Manke
Jet Star cover #25 (#415)	Nov 18, 1976 p.m.	McMurtry and Mallick
Jet Star cover #26 (#416)	Nov 22, 1976 p.m.	Mallick and Dana
Jet Star cover #27 (#418)	Dec 2, 1976 p.m.	Mallick and Manke
Jet Star cover #28 (#419)	Dec 3, 1976 a.m.	Mallick and Enevoldson
Jet Star cover #29 (#420)	Dec 3, 1976 p.m.	Mallick and Young
Jet Star cover #30 (#421)	Dec 6, 1976 a.m.	Mallick and Enevoldson
Jet Star cover #31 (#422)	Dec 6, 1976 a.m.	Mallick and Enevoldson
Jet Star cover #32 (#423)	Dec 7, 1976 a.m.	Mallick and Young
Jet Star cover #33 (#424)	Dec 7, 1976 p.m.	Mallick and Manke
Jet Star cover #34 (#425)	Dec 8, 1976 p.m.	Mallick and Young
Jet Star cover #35 (#426)	Dec 8, 1976 p.m.	Mallick and Wilson
Jet Star cover #36 (#427)	Dec 9, 1976 p.m.	McMurtry and Krier
Jet Star cover #37 (#428)	Dec 9, 1976 p.m.	McMurtry and Krier
Jet Star cover #38 (#429)	Dec 10, 1976 a.m.	McMurtry and Krier
Jet Star cover #39 (#433)	Dec 15, 1976 p.m.	Mallick and Manke
Jet Star cover #40 (#434)	Dec 16, 1976 a.m.	McMurtry and Dana
Jet Star cover #41 (#435)	Dec 17, 1976 a.m.	Mallick and Young

End of First Series

Second Series:

These test flights are Shuttle-type approaches to verify the Microwave Scanning Beam Landing Systems (MSBLS). The ones for flights up to #492 (Jet Star Cover, Second Series, #20) were a prelude to the actual Manned Free Flights of the Approach and Landing Tests. Those from flight #507 (Jet Star Cover, Second Series, #21) were made after the completion of the Manned Free Flights. It was felt that there was still more testing to be done and is the reason for the additional flights. All of the test flights were made at Dryden Flight Research Center, Edwards, California.

VALUE: The values are fair retail prices at the time of this additional listing (October 1977). As on those mentioned on the other side, the collector should remember that stocks of these are not plentiful and we do have more and more collectors beginning a Space Shuttle cover collection as each month goes by. These prices are subject to change and availability. Price for each is \$1.50.

DESCRIPTIONS: Same as listed on other side. The only two additional pilots are; Steve Ishmael and Major Dick Scobee.

Jet Star cover #1	(#445)	Mar 28, 1977 p.m.	Mallick and Young
Jet Star cover #2	(#446)	Mar 29, 1977 p.m.	Mallick and Young
Jet Star cover #3	(#448)	Apr 4, 1977 p.m.	Mallick and McMurtry
Jet Star cover #4	(#449)	Apr 5, 1977 a.m.	Mallick and Enevoldson
Jet Star cover #5	(#450)	Apr 6, 1977 p.m.	Mallick and McMurtry
Jet Star cover #6	(#453)	Apr 20, 1977 p.m.	McMurtry and Young
Jet Star cover #7	(#463)	Apr 29, 1977 p.m.	Mallick and McMurtry
Jet Star cover #8	(#464)	May 2, 1977 p.m.	Mallick and McMurtry
Jet Star cover #9	(#465)	May 3, 1977 p.m.	Mallick and Young
Jet Star cover #10	(#466)	May 4, 1977 p.m.	Mallick and Scobee
Jet Star cover #11	(#467)	May 11, 1977 p.m.	Mallick and McMurtry
Jet Star cover #12	(#468)	May 14, 1977 p.m.	Mallick and Young
Jet Star cover #13	(#469)	May 14, 1977 p.m.	Mallick and Young
Jet Star cover #14	(#476)	Jun 27, 1977 p.m.	McMurtry and Krier
Jet Star cover #15	(#477)	Jun 30, 1977 p.m.	Mallick and Ishmael
Jet Star cover #16	(#478)	Jul 1, 1977 p.m.	Mallick and Ishmael
Jet Star cover #17	(#483)	Jul 13, 1977 p.m.	Mallick and Ishmael
Jet Star cover #18	(#486)	Jul 25, 1977 p.m.	Mallick and Ishmael
Jet Star cover #19	(#491)	Aug 2, 1977 p.m.	McMurtry
Jet Star cover #20	(#492)	Aug 3, 1977 p.m.	McMurtry
Jet Star cover #21	(#507)	Sep 16, 1977 p.m.	Mallick and Young
Jet Star cover #22	(#508 & #509)	Sep 18, 1977 a.m.	Mallick and Young
Jet Star cover #23	(#516 & #517)	Sep 28, 1977 a.m.	Mallick and Young
Jet Star cover #24	(#518)	Sep 28, 1977 p.m.	Mallick and Young
Jet Star cover #25	(#519)	Sep 29, 1977 p.m.	Mallick and Young
Jet Star cover #26	(#520)	Sep 30, 1977 p.m.	Mallick and Young
Jet Star cover #27	(#525)	Oct 8, 1977 a.m.	McMurtry and Young
Jet Star cover #28	(#528)	Oct 25, 1977 p.m.	Mallick and Young

End of Second Series