AOD 33895
Rev D

Visitor's Guide NASA JSC RGO

Aircraft Operations Division

January 2011

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058

Verify that this is the correct version before use.

APPROVAL AUTHORITY

Original Signed By

Dominic L. Del Rosso
Lead, Reduced Gravity Program

CHANGE RECORD/LIST OF EFFECTIVE PAGES

Doc. Version	Date	Process Owner/Ext.	Description
Basic	May 2002	J. S. Yaniec/49211 Dominic Del Rosso/49113	Initial Release.
Rev A	Feb 2005	J. S. Yaniec/49211 Dominic Del Rosso/49113	Complete Revision.
Rev B	Aug 2005	J. S. Yaniec/49211 Dominic Del Rosso/49113	Complete Revision.
Rev C	Nov 2007	J. S. Yaniec/49211 Dominic Del Rosso/49113	Major Revision.
Rev C PCN 1	Nov 2008	D. Del Rosso/49113	Replace reference to JPG-1700.1I with JPR-1700.1.
Rev D	Jan 2011	D. Del Rosso/49113	Add directions to NASA JSC RGO parking lot.

Page No.	Doc. Version	Page No.	Doc. Version
Cover	Rev D		
2 thru 16	Rev D		

TABLE OF CONTENTS

APPROVAL AUTHORITY **2**

CHANGE RECORD/LIST OF EFFECTIVE PAGES **3**

TABLE OF CONTENTS **4**

LIST OF FIGURES **4**

1.0 INTRODUCTION **5**
1.1 Purpose **5**
1.2 Scope **5**
1.3 References **5**
1.4 Reduced Gravity Office Contact Information **5**
1.5 List of Acronyms **6**
1.6 Local Area Information **7**
1.6.1 Maps 7
1.6.2 Restaurants 10
1.6.3 Hotels 11
1.6.4 Hardware/Specialty Stores 12

2.0 SAFETY POLICY **13**
2.1 Johnson Space Center Requirements **13**
2.2 Aircraft Operations Division Requirements **13**
2.3 Human Research Policy **14**
2.4 Test Personnel **15**

INDEX **16**

LIST OF FIGURES

Figure 1. Clear Lake Area Map 7
Figure 2. Ellington Field Map 8
Figure 3. Johnson Space Center Map 9

1.0 INTRODUCTION

The Reduced Gravity Program, operated by the National Aeronautics and Space Administration (NASA), Lyndon B. Johnson Space Center (JSC) in Houston, Texas, provides a "weightless" environment, similar to the environment of space flight.

1.1 Purpose

The purpose of this guide is to provide a guideline for existing and potential visitors to the JSC Reduced Gravity Program. This document outlines and provides safety requirements and local area information relating to visiting researchers.

1.2 Scope

This document applies to all users and potential users of the JSC Reduced Gravity Program.

1.3 References

AOD 33897, Experiment Design Requirements and Guidelines NASA 932 C-9B

AOD 33899, JSC Reduced Gravity Program User's Guide

JSC Procedural Requirement (JPR)-1700.1, JSC Safety and Health Handbook

JSC-20483, JSC Committee for the Protection of Human Subjects - Guidelines For Investigators Proposing Human Research For Space Flight And Related Investigations

1.4 Reduced Gravity Office Contact Information

Any questions concerning this document, the program, test requirements, test schedules, etc., should be directed to:

Reduced Gravity Office
Building 993
Ellington Field
Houston, Texas 77034
Call: 281-244-9874
Fax: 281-244-9946
E-mail: jsc-zerog@mail.nasa.gov

1.5 List of Acronyms

AOD	Aircraft Operations Division
FOD	Foreign Object Debris
IRB	Institutional Review Board
JPR	JSC Procedural Requirement
JSC	Johnson Space Center
NASA	National Aeronautics and Space Administration
NBL	Neutral Buoyancy Lab
OD	Olive Drab
RGO	Reduced Gravity Office
SCTF	Sonny Carter Training Facility
TRR	Test Readiness Review

1.6 Local Area Information

This section provides information on the area surrounding JSC. It is provided as an aid to researchers and guests, and is not intended as an endorsement of products and/or services.

1.6.1 Maps

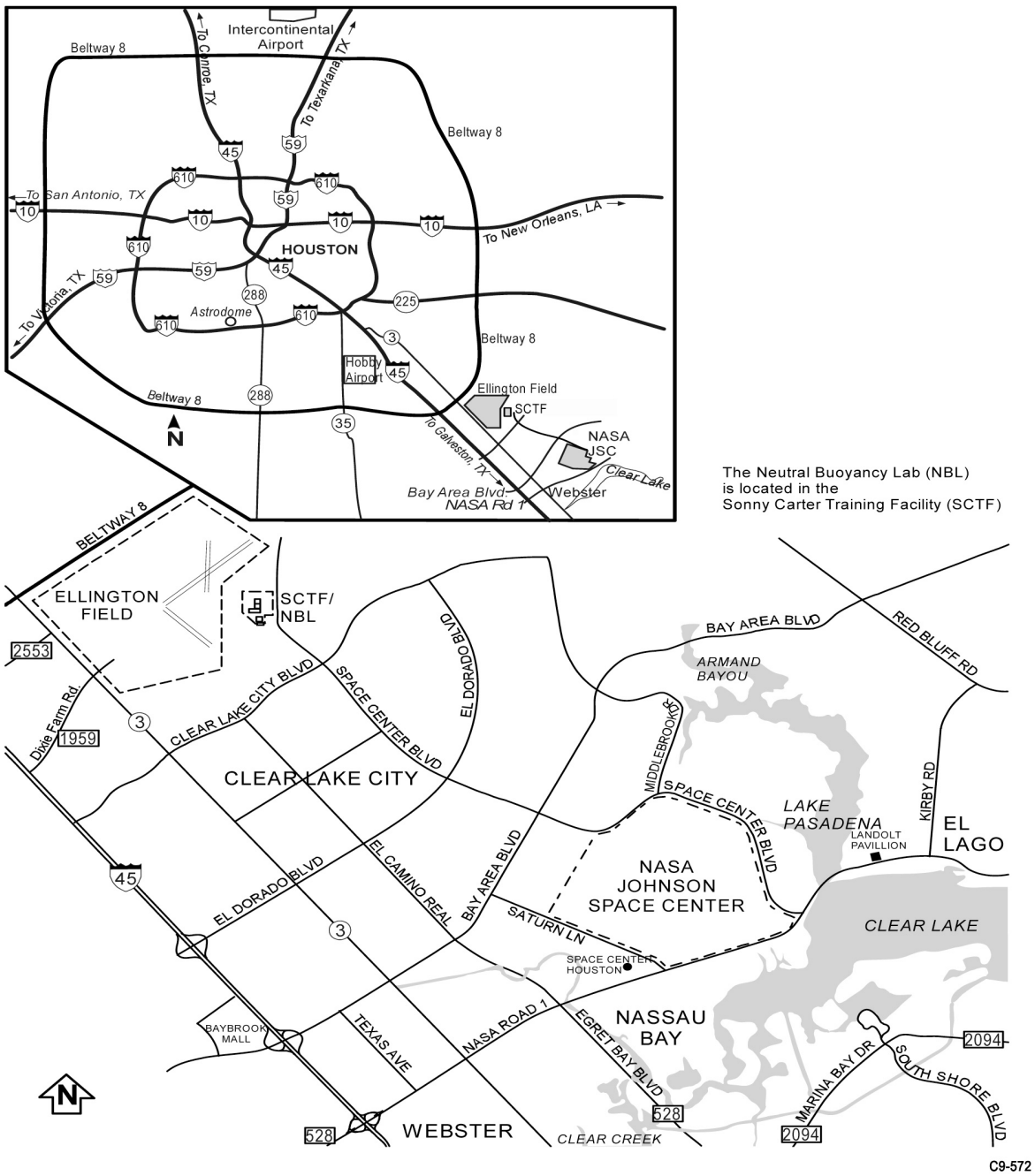

Figure 1. Clear Lake Area Map

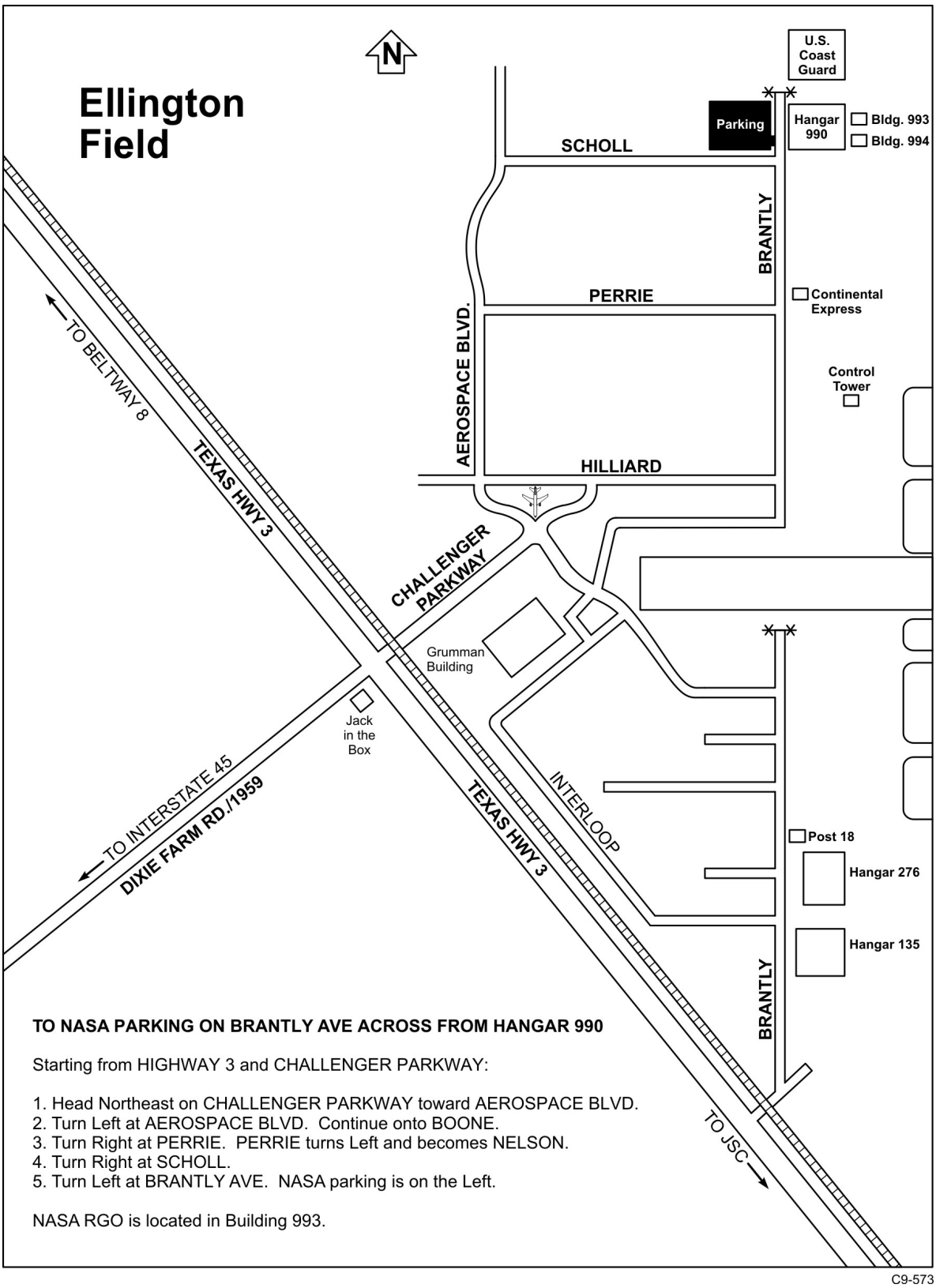

Figure 2. Ellington Field Map

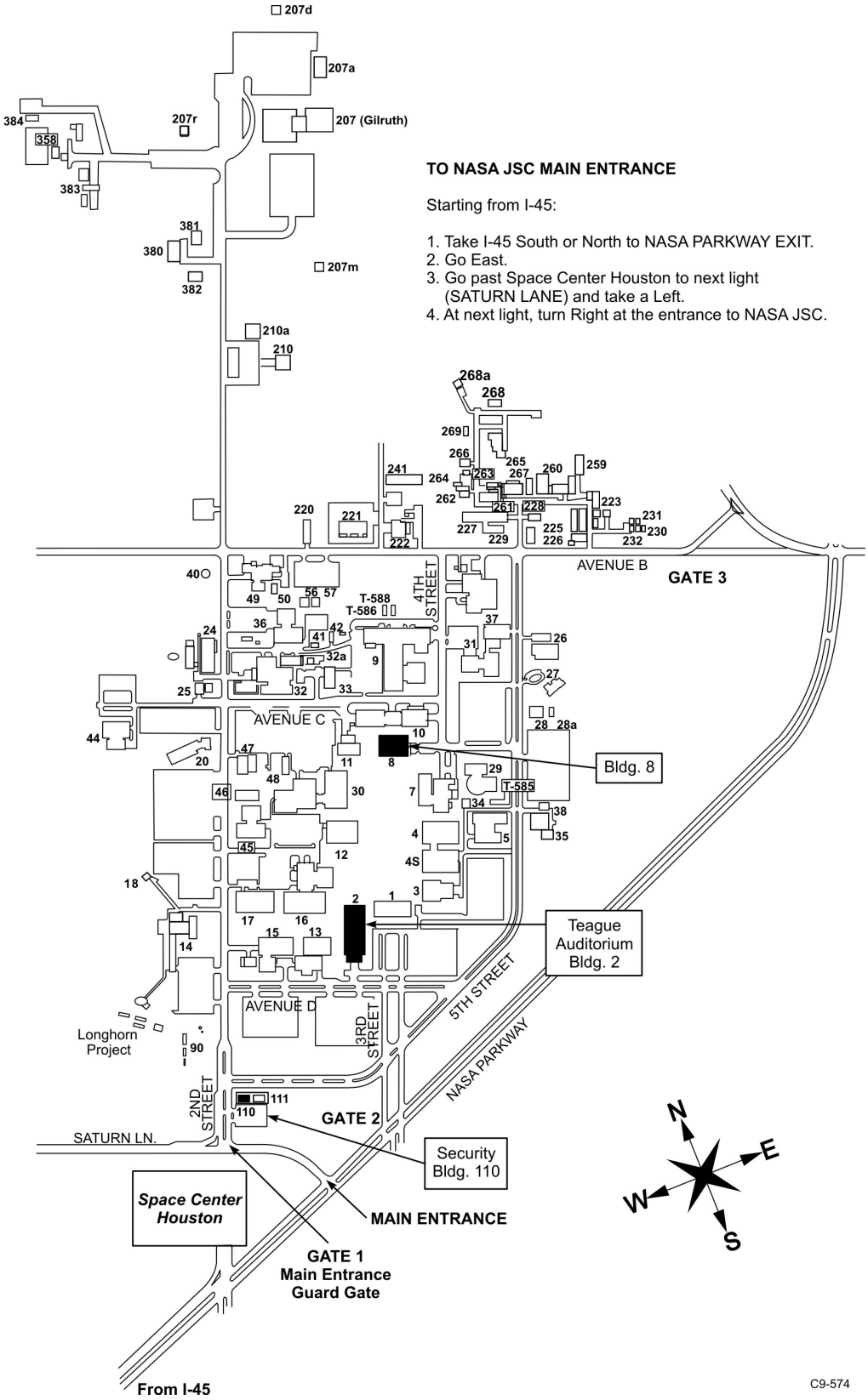

Figure 3. Johnson Space Center Map

1.6.2 Restaurants

Name	Address	Telephone
Angelo's Pizza & Pasta	400 W. Bay Area Blvd. #400A	281-332-2404
Antonini's Subs & Steaks	17314 Hwy. 3	281-338-1305
Arby's Roast Beef Restaurant	2405 Bay Area Blvd.	281-486-9865
Ashley's Donuts	2160 Bay Area Blvd.	281-486-5644
Black-Eyed Pea	Hwy. 3 & Bay Area Blvd.	281-338-2571
BJ's Restaurant & Brewery	515 W. Bay Area Blvd.	281-316-3037
Buffalo Wild Wings	528 Bay Area Blvd.	281-338-9464
Burger King	535 El Dorado Blvd.	281-486-8780
Cajun Corner	10904 Scarsdale Blvd.	713-464-6809
Burger Tex	1227 Bay Area & Diana	281-990-9700
Cappricio's Pizza N Subs	341 El Dorado Blvd.	281-488-2838 (delivery only)
Coffee Oasis (Sandwich Shop)	1606 Clear Lake City Blvd.	281-488-8333
Colosseum Italian Restaurant	16608 El Camino Real	281-488-0731
Dairy Queen	225 El Dorado Blvd.	281-286-4717
Don Pico's Mexican Restaurant	2110 Bay Area Blvd.	281-280-8081
Domino's Pizza	1845 El Dorado Blvd.	281-480-7533
Double Dave's Pizza Works	Bay Area & Space Center Blvd.	281-286-DAVE
Franco Italian Restaurant	1101 E. NASA Parkway	281-488-2207
Gardenia Mexican Restaurant	622 FM 1959 (Dixie Farm Rd.)	281-464-0988
Jack-In-The-Box	11912 Hwy. 3 (Ellington Field/Hwy. 3)	281-484-7985
Jack-In-The Box	418 El Dorado Blvd.	281-286-4816
Jason's Deli	541 W. Bay Area Blvd.	281-338-8000
Kentucky Fried Chicken	1945 El Dorado Blvd.	281-488-8532
McDonald's	534 ½ El Dorado Blvd.	281-488-3326
Mr. Gatti's Pizza (Buffet)	16607 El Camino Real & Bay Area Blvd.	281-480-4800
Ninfa's Mexican Restaurant	463 Bay Area Blvd.	281-480-4090
Olive Garden	18976 Gulf Frwy.	281-488-1022
Outback Steakhouse	481 W. Bay Area Blvd.	281-338-6283
Perry's Steakhouse & Grille	487 Bay Area Blvd.	281-286-8800
Perry's Italian Grille	1001 Pineloch Dr.	281-488-2626
Perry's Market & Grille	12830 Scarsdale	281-481-5214
Quizno's Classic Subs	16801 El Camino Real	281-282-9700
Salad Express	595 W. Bay Area Blvd.	281-338-2791

Name	Address	Telephone
Sonic Drive-In	310 W. Bay Area Blvd.	281-338-9931
Sonic Drive-In	13908 Hwy. 3	281-282-0169
Subway Sandwich Shop	3108 Dixie Farm Rd.	281-648-1317
Subway Sandwich Shop	534 El Dorado Blvd.	281-486-8636
Tommy's Seafood Steakhouse	2555 Bay Area Blvd.	281-480-2221
Village Pizza & Seafood	2314 W. Main, League City	281-332-3606
Village Pizza & Seafood	1602 Clear Lake City Blvd.	281-218-6200
Wendy's	16500 El Camino Real	281-488-4376

1.6.3 Hotels

Name	Address	Telephone
Beacon Hill Guest House Bed & Breakfast	3705 NASA Parkway Seabrook, TX 77586	281-326-7643
Best Western Inn	889 W. Bay Area Blvd., Webster, TX 77598	281-338-6000
Best Western Inn	8600 Gulf Frwy. Houston, TX 77017	713-910-8600
Brentwood Inn NASA	1300 NASA Parkway, Houston, TX 77058	281-333-2500
Boardwalk Inn	8 Kemah Boardwalk, Kemah, TX 77565	281-334-9880
Candlewood Hotel Co.	2737 Bay Area Blvd., Houston, TX 77058	281-461-3060
Captain's Quarters Bed & Breakfast	701 Bay Avenue, Kemah, TX 77565	281-334-4141
Comfort Suites	16931 N. Texas Ave Webster, TX 77598	281-554-8096
Courtyard by Marriott	9190 Gulf Frwy., Houston, TX 77017	713-910-1700
Days Inn & Suites	750 West NASA Parkway Webster, TX 77598	281-332-1001
Newport at Clear Lake	15900 Space Center Blvd., Houston, TX 77062	281-488-7028
Hampton Inn	3000 NASA Parkway Seabrook, TX 77586	281-532-9200
Hampton Inn and Suites	506 West Bay Area Blvd Webster, TX 77598	281-332-7952

Name	Address	Telephone
Hilton Nassau Bay & Marina	3000 NASA Parkway, Houston, TX 77058	281-333-9300
Holiday Inn Express	2720 NASA Parkway, Seabrook, TX 77586	281-326-7200
Extended Stay America	720 W. Bay Area Blvd., Webster, TX 77598	281-338-7711
Homewood Suites	401 Bay Area Blvd., Houston, TX 77058	281-486-7677
Microtel Inn and Suites	1620 NASA Parkway, Houston, TX 77058	281-335-0800
Motel 6	1001 W. NASA Parkway, Webster, TX 77598	281-332-4581
Passport Inn and Suites	601 Texas Ave., Kemah, TX 77565	281-334-4855
Pelican House Bed & Breakfast	1302 1st St., Seabrook, TX 77586	281-474-5295
Quality Inn	904 NASA Parkway, Houston, TX 77058	281-333-3737
Residence Inn	525 Bay Area Blvd., Houston, TX 77058	281-486-2424
South Shore Harbour Resort	2500 S. Shore Blvd., League City, TX 77573	281-334-1000
Super 8 Motel	18103 King's Row, Houston, TX 77058	281-333-5385
Towneplace Suites Houston Clear Lake	1050 Bay Area Blvd., Houston, TX 77058	281-286-2132

1.6.4 Hardware/Specialty Stores

Name	Address	Telephone
EPCO Computer Electronics, Etc.	110 E. Medical Center Blvd.	281-286-5510
Friendswood Hardware & Supply	203 W. Edgewood Ave.	281-482-3487
Home Depot	1514 E. Broadway (SR518) @ Dixie Farm Rd.	281-993-1111
Home Depot	20251 Gulf Frwy. (@ NASA Parkway)	281-554-2420
Home Depot	11820 Dickinson Rd. (I-45 Southbound @ Bltwy. 8)	281-464-2080
Lowe's	2741 E. Broadway (SR518) north of Dixie Farm Rd.	281-412-6300

Name	Address	Telephone
Lowe's	19225 Gulf Freeway Webster, TX 77598	281-332-3006
Matheson Tri-Gas Inc.	2200 Houston Ave. Houston, TX 77007	713-869-7351
Praxair Industrial Gases	9200 Telephone Road Houston, TX 77075	713-991-8700
Pearland Lumber & Ace Hardware	2027 N. Main St.	281-485-1474
ACE Hardware	2422-A Bay Area Blvd. (@ Space Center Blvd.)	281-286-2400
Sears Hardware Store	11293 Fuqua (@ I-45 Southbound)	713-910-0330
Sears, Roebuck & Co.	300 Baybrook Mall	281-486-3174
Space City Ace Hardware	3902 NASA Parkway	281-326-3300
Target	1801 W. Bay Area Blvd. (@ I-45, Baybrook Mall)	281-819-4117

2.0 SAFETY POLICY

The JSC Reduced Gravity Program is operated in accordance with established NASA safety procedures. The policies and requirements set forth in this document must be strictly adhered to.

This section describes the general safety policies that all personnel and equipment must comply with in order to occupy, work, and operate on NASA property. Please contact the Reduced Gravity Office (RGO) jsc-zerog@mail.nasa.gov with any questions regarding safety aspects at Ellington Field.

2.1 Johnson Space Center Requirements

All personnel and equipment arriving at JSC, including the NBL and Ellington Field, must adhere to all JSC safety guidelines as stated in JPR-1700.1, JSC Safety and Health Handbook. Contact the RGO to request a copy.

2.2 Aircraft Operations Division Requirements

All personnel and equipment arriving at Ellington Field must adhere to the following safety guidelines. A safety briefing will be given to all researchers upon arrival at Ellington Field.

A. In the event of an emergency at Ellington Field, **dial x44444** from any NASA phone to immediately contact an Emergency Action Team.

B. Identification badges issued by JSC Security must be displayed at all times while on NASA property (refer to AOD 33899, JSC Reduced Gravity Program User's Guide for Badging Requirements).

C. The Reduced Gravity researchers and visitors must stay within the immediate vicinity of Building 993 (RGO/High Bay). Admission to any other Ellington Field location is not allowed unless escorted by a NASA Aircraft Operations Division (AOD) badged employee.

D. Smoking is discouraged, but allowed in designated areas. Food and drink is allowed only in designated areas.

E. Loose items such as pencils, clothing, jewelry, badges, etc. must be accounted for at all times in order to prevent Foreign Object Debris (FOD) problems with the aircraft.

F. All trash must be carefully placed in the provided trash receptacles. Use specialty trash receptacles for batteries, oil rags, chemicals, etc.

G. Stay 15 feet away from all aircraft in Hangar 990 unless escorted by a NASA AOD badged employee.

H. **Do not walk out onto the flight line** (location where aircraft/ground support equipment is operated outside the hangar) unless escorted by a NASA AOD badged employee. Be aware of the flight line road immediately in front of the RGO (Building 993). Aircraft tugs, vans, and golf carts frequently travel along the road and pose a hazard to pedestrians in that area.

I. Stay at least 200 feet away from all operating aircraft engines.

J. Hearing protection is required during all outdoor and flight operations. Foam earplugs are provided through the RGO. [Refer to AOD 33897, Experiment Design Requirements and Guidelines NASA 932 C-9B for Noise Level(s).]

K. Storage of equipment and materials/supplies must be approved by the RGO prior to its arrival at Ellington Field. All equipment must be properly labeled upon its arrival.

L. All equipment (tools, test hardware, fluids, etc.) brought to Ellington Field must be inventoried and accounted for at all times. The RGO enforces a strict **TOOL CONTROL PROGRAM.** The RGO has a general tool box for researcher use. Any specialized/unique tools must be inventoried and accounted for while at the RGO.

M. There will be no unattended operation of research or other equipment on the aircraft or in Building 993. Someone familiar with the shut down procedures will be in attendance during any equipment operation. If an experiment is operating unsupervised, the Test Director **will** power the experiment down.

2.3 Human Research Policy

All JSC Reduced Gravity Program investigations involving human test subjects, animals, or biological tests must submit a JSC Institutional Review Board (IRB) protocol and obtain written approval prior to the Test Readiness Review (TRR).

2.4 Test Personnel

Each researcher will keep the number of personnel that are required to fly to a minimum. Only test personnel with a demonstrated need to participate in the investigation will be allowed to fly. All personnel are required to wear approved flight suits and proper footwear during the flight.

All researchers will wear the Olive Drab (OD) flight suits. The RGO provides the OD flight suits on loan. There is no requirement for researchers to purchase their own flight suits. Researchers that wish to purchase their own flight suits may do so; however, flight suits **must** be made of NOMEX III material and the **only** color allowed is OD.

Proper footwear is defined as: boots (i.e., combat, hiking) or tennis shoes. In all cases the footwear must be clean. Sandals (or any open toe footwear) are **not** acceptable at any time on the aircraft (loading, during flight, off-loading) or within Ellington Field facilities.

INDEX

Aircraft Operations Division, 13
Building 993, 5, 14
C-9B, 14
Clear Lake Area Map, 7
Ellington Field, 5, 13, 14
Ellington Field Map, 8
Hardware/Specialty Stores, 12
Hotels, 11
Human Research Policy, 14
Johnson Space Center Map, 9
Johnson Space Center Requirements, 13
JSC Institutional Review Board, 14
Local Area Information, 7
Purpose, 5
Reduced Gravity Office, 5, 6, 13, 14, 15
Reduced Gravity Office Contact Information, 5
Safety Policy, 13
Scope, 5
Test Readiness Review, 14