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## Walk Thru Text and Keys

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[Walk Thru Text for Information Extraction](#)

[Key for Template Element](#)

[Key for Template Relation](#)

[Key for Scenario Template](#)

[Walk Thru Text for Named Entity](#)

[Key for Named Entity](#)

[Walk Thru Text for Coreference](#)

[Key for Coreference](#)

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*Last Modified November 1998*

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## Template Element Key

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<TEMPLATE-9602140509-1> :=  
DOC\_NR: "9602140509"  
<ENTITY-9602140509-1> :=  
ENT\_NAME: "New York Times News Service"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-2> :=  
ENT\_NAME: "Bloomberg Business News"  
"Bloomberg"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-3> :=  
ENT\_NAME: "Intelsat"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "a global supplier of international satellite communication services"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-4> :=  
ENT\_NAME: "News Corp."  
"News Corporation"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-5> :=  
ENT\_NAME: "Tele-Communications Inc."  
"TCI"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-6> :=  
ENT\_NAME: "China Great Wall Industry Corp."  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-7> :=  
ENT\_NAME: "Loral Corp."  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-8> :=  
ENT\_NAME: "PanAmSat Corp."  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "a private, Greenwich, Connecticut, company"  
/ "a satellite provider for the TV project"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-9> :=  
ENT\_NAME: "Grupo Televisa SA"  
"Televisa"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "Mexico's biggest broadcaster"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-10> :=  
ENT\_NAME: "Organizacoes Globo"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "Brazil's largest media company"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-11> :=  
ENT\_NAME: "ING Barings"

ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-12> :=  
ENT\_NAME: "Arianespace"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-13> :=  
ENT\_NAME: "International Space Brokers Group"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "this consortium"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-14> :=  
ENT\_NAME: "International Technology Underwriters"  
"International Technology"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "one insurer in this consortium"  
/ "80 percent owned by Paris insurer Axa SA and 20 percent by Prudential Reinsurance Holdings Inc. of Newark, New Jersey"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-15> :=  
ENT\_NAME: "Axa SA"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "Paris insurer"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-16> :=  
ENT\_NAME: "Prudential Reinsurance Holdings Inc."  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-17> :=  
ENT\_NAME: "Space Transportation Association"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_OTHER  
<ENTITY-9602140509-18> :=  
ENT\_NAME: "National Aeronautics and Space Administration"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_GOV  
<ENTITY-9602140509-19> :=  
ENT\_NAME: "Lockheed Martin Corp."  
"Lockheed"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-20> :=  
ENT\_NAME: "Lockheed Space and Strategic Missiles"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
OBJ\_STATUS: OPTIONAL  
COMMENT: "part of larger org mentioned"  
<ENTITY-9602140509-21> :=  
ENT\_NAME: "McDonnell Douglas Corp."  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-22> :=  
ENT\_NAME: "Bloomberg Information Television"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "a unit of Bloomberg L.P., the parent of Bloomberg Business News"  
/ "a unit of Bloomberg L.P."  
ENT\_CATEGORY: ORG\_CO  
COMMENT: "parent org mentioned"  
<ENTITY-9602140509-23> :=

ENT\_NAME: "Bloomberg L.P."  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "the parent of Bloomberg Business News"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-24> :=  
ENT\_NAME: "Liza McDonald"  
ENT\_TYPE: PERSON  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-25> :=  
ENT\_NAME: "Todd Blecher"  
ENT\_TYPE: PERSON  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-26> :=  
ENT\_NAME: "Rupert Murdoch"  
ENT\_TYPE: PERSON  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-27> :=  
ENT\_NAME: "Irving Goldstein"  
"Goldstein"  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "director general and chief executive of Intelsat"  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-28> :=  
ENT\_NAME: "Howard J. Rubenstein"  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "company spokesman"  
ENT\_CATEGORY: PER\_CIV  
COMMENT: "News Corporation"  
<ENTITY-9602140509-29> :=  
ENT\_NAME: "Shayne McGuire"  
"McGuire"  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "an analyst at ING Barings in Mexico City"  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-30> :=  
ENT\_NAME: "Rick Hauck"  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "Its chief executive"  
/ "chief executive"  
/ "former space shuttle astronaut"  
ENT\_CATEGORY: PER\_CIV  
COMMENT: "International Technology Underwriters"  
<ENTITY-9602140509-31> :=  
ENT\_NAME: "Eric Stallmer"  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "spokesman for the Space Transportation Association of Arlington, Virginia"  
/ "spokesman for the Space Transportation Association of Arlington, Virginia, which represents U.S. rocket makers who compete with the Chinese"  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-32> :=  
ENT\_NAME: "Virnell Bruce"  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "spokeswoman for Lockheed Space and Strategic Missiles in Bethesda, Maryland"  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-33> :=  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "company spokesman"  
ENT\_CATEGORY: PER\_CIV  
COMMENT: "Bloomberg Information Television"

<ENTITY-9602140509-34> :=  
ENT\_NAME: "Long March 3B"  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "A Chinese rocket carrying an Intelsat satellite"  
/ "A Chinese rocket"  
/ "Long March 3B rocket"  
/ "Long March 3B rocket for today's failed launch"  
/ "Long March 3B rocket for today's failed launch of a satellite built by Loral Corp. of New York for Intelsat"  
ENT\_CATEGORY: ART\_AIR  
COMMENT: "too many logically possible alternatives"  
<ENTITY-9602140509-35> :=  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "an Intelsat satellite"  
/ "spacecraft"  
/ "satellite built by Loral Corp. of New York for Intelsat"  
/ "satellite built by Loral Corp. of New York"  
/ "satellite built by Loral Corp."  
/ "satellite"  
/ "one of three satellites to be used for a new direct-to-home subscription-based television service in Latin America scheduled to begin in May"  
/ "the satellite destroyed today"  
ENT\_CATEGORY: ART\_AIR  
<ENTITY-9602140509-36> :=  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "a second Intelsat satellite"  
ENT\_CATEGORY: ART\_AIR  
<LOCATION-9602140509-1> :=  
LOCALE: "Xichang"  
LOCALE\_TYPE: CITY  
/ PROVINCE  
COUNTRY: "China"  
COMMENT: "China"  
<LOCATION-9602140509-2> :=  
LOCALE: "Latin America"  
LOCALE\_TYPE: REGION  
COUNTRY: "Latin America"  
<LOCATION-9602140509-3> :=  
LOCALE: "Washington"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
<LOCATION-9602140509-4> :=  
LOCALE: "China"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "China"  
<LOCATION-9602140509-5> :=  
LOCALE: "New York"  
LOCALE\_TYPE: CITY  
/ PROVINCE  
COUNTRY: "United States"  
<LOCATION-9602140509-6> :=  
LOCALE: "California"  
/ "southern California"  
LOCALE\_TYPE: PROVINCE  
COUNTRY: "United States"  
<LOCATION-9602140509-7> :=  
LOCALE: "Central America"  
LOCALE\_TYPE: REGION  
COUNTRY: "Central America"  
<LOCATION-9602140509-8> :=

LOCALE: "Colombia"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Colombia"  
<LOCATION-9602140509-9> :=  
LOCALE: "Argentina"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Argentina"  
COMMENT: "northern Argentina not included because it would be a province; perhaps both should be optional"  
<LOCATION-9602140509-10> :=  
LOCALE: "South America"  
LOCALE\_TYPE: REGION  
COUNTRY: "South America"  
<LOCATION-9602140509-11> :=  
LOCALE: "Greenwich"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "Connecticut"  
<LOCATION-9602140509-12> :=  
LOCALE: "Mexico"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Mexico"  
<LOCATION-9602140509-13> :=  
LOCALE: "Brazil"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Brazil"  
<LOCATION-9602140509-14> :=  
LOCALE: "Mexico City"  
LOCALE\_TYPE: CITY  
COUNTRY: "Mexico"  
<LOCATION-9602140509-15> :=  
LOCALE: "French Guyana"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "French Guiana"  
<LOCATION-9602140509-16> :=  
LOCALE: "Bethesda"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "Maryland"  
<LOCATION-9602140509-17> :=  
LOCALE: "Paris"  
LOCALE\_TYPE: CITY  
COUNTRY: "France"  
<LOCATION-9602140509-18> :=  
LOCALE: "Newark"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "New Jersey"  
<LOCATION-9602140509-19> :=  
LOCALE: "Arlington"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "Virginia"

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*Last Modified November 1998*

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## Template Relation Key

---

<TEMPLATE-9602140509-1> :=  
DOC\_NR: "9602140509"  
<ENTITY-9602140509-1> :=  
ENT\_NAME: "New York Times News Service"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-2> :=  
ENT\_NAME: "Bloomberg Business News"  
"Bloomberg"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-3> :=  
ENT\_NAME: "Intelsat"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "a global supplier of international satellite communication services"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-4> :=  
ENT\_NAME: "News Corp."  
"News Corporation"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-5> :=  
ENT\_NAME: "Tele-Communications Inc."  
"TCI"  
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ENT\_CATEGORY: ORG\_CO  
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ENT\_NAME: "Loral Corp."  
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ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-8> :=  
ENT\_NAME: "PanAmSat Corp."  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "a private, Greenwich, Connecticut, company"  
/ "a satellite provider for the TV project"  
ENT\_CATEGORY: ORG\_CO  
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ENT\_NAME: "Grupo Televisa SA"  
"Televisa"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "Mexico's biggest broadcaster"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-10> :=  
ENT\_NAME: "Organizacoes Globo"  
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ENT\_DESCRIPTOR: "Brazil's largest media company"  
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<ENTITY-9602140509-11> :=  
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ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "this consortium"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-14> :=  
ENT\_NAME: "International Technology Underwriters"  
"International Technology"  
ENT\_TYPE: ORGANIZATION  
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/ "80 percent owned by Paris insurer Axa SA and 20 percent by Prudential Reinsurance Holdings Inc. of Newark, New Jersey"  
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ENT\_NAME: "Axa SA"  
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ENT\_CATEGORY: ORG\_CO  
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ENT\_NAME: "Space Transportation Association"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_OTHER  
<ENTITY-9602140509-18> :=  
ENT\_NAME: "National Aeronautics and Space Administration"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_GOV  
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ENT\_NAME: "Lockheed Martin Corp."  
"Lockheed"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
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ENT\_CATEGORY: ORG\_CO  
OBJ\_STATUS: OPTIONAL  
COMMENT: "part of larger org mentioned"  
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ENT\_NAME: "McDonnell Douglas Corp."  
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ENT\_CATEGORY: ORG\_CO  
COMMENT: "parent org mentioned"  
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ENT\_NAME: "Bloomberg L.P."  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "the parent of Bloomberg Business News"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-24> :=  
ENT\_NAME: "Liza McDonald"  
ENT\_TYPE: PERSON  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-25> :=  
ENT\_NAME: "Todd Blecher"  
ENT\_TYPE: PERSON  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-26> :=  
ENT\_NAME: "Rupert Murdoch"  
ENT\_TYPE: PERSON  
ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-27> :=  
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"Goldstein"  
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ENT\_CATEGORY: PER\_CIV  
COMMENT: "News Corporation"  
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"McGuire"  
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<ENTITY-9602140509-30> :=  
ENT\_NAME: "Rick Hauck"  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "Its chief executive"  
/ "chief executive"  
/ "former space shuttle astronaut"  
ENT\_CATEGORY: PER\_CIV  
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ENT\_CATEGORY: PER\_CIV  
<ENTITY-9602140509-33> :=  
ENT\_TYPE: PERSON  
ENT\_DESCRIPTOR: "company spokesman"  
ENT\_CATEGORY: PER\_CIV  
COMMENT: "Bloomberg Information Television"

<ENTITY-9602140509-34> :=  
ENT\_NAME: "Long March 3B"  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "A Chinese rocket carrying an Intelsat satellite"  
/ "A Chinese rocket"  
/ "Long March 3B rocket"  
/ "Long March 3B rocket for today's failed launch"  
/ "Long March 3B rocket for today's failed launch of a satellite built by Loral Corp. of New York for Intelsat"  
ENT\_CATEGORY: ART\_AIR  
COMMENT: "too many logically possible alternatives"  
<ENTITY-9602140509-35> :=  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "an Intelsat satellite"  
/ "spacecraft"  
/ "satellite built by Loral Corp. of New York for Intelsat"  
/ "satellite built by Loral Corp. of New York"  
/ "satellite built by Loral Corp."  
/ "satellite"  
/ "one of three satellites to be used for a new direct-to-home subscription-based television service in Latin America scheduled to begin in May"  
/ "the satellite destroyed today"  
ENT\_CATEGORY: ART\_AIR  
<ENTITY-9602140509-36> :=  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "a second Intelsat satellite"  
ENT\_CATEGORY: ART\_AIR  
<LOCATION-9602140509-1> :=  
LOCALE: "Xichang"  
LOCALE\_TYPE: CITY  
/ PROVINCE  
COUNTRY: "China"  
COMMENT: "China"  
<LOCATION-9602140509-2> :=  
LOCALE: "Latin America"  
LOCALE\_TYPE: REGION  
COUNTRY: "Latin America"  
<LOCATION-9602140509-3> :=  
LOCALE: "Washington"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
<LOCATION-9602140509-4> :=  
LOCALE: "China"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "China"  
<LOCATION-9602140509-5> :=  
LOCALE: "New York"  
LOCALE\_TYPE: CITY  
/ PROVINCE  
COUNTRY: "United States"  
<LOCATION-9602140509-6> :=  
LOCALE: "California"  
/ "southern California"  
LOCALE\_TYPE: PROVINCE  
COUNTRY: "United States"  
<LOCATION-9602140509-7> :=  
LOCALE: "Central America"  
LOCALE\_TYPE: REGION  
COUNTRY: "Central America"  
<LOCATION-9602140509-8> :=

LOCALE: "Colombia"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Colombia"  
<LOCATION-9602140509-9> :=  
LOCALE: "Argentina"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Argentina"  
COMMENT: "northern Argentina not included because it would be a province; perhaps both should be optional"  
<LOCATION-9602140509-10> :=  
LOCALE: "South America"  
LOCALE\_TYPE: REGION  
COUNTRY: "South America"  
<LOCATION-9602140509-11> :=  
LOCALE: "Greenwich"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "Connecticut"  
<LOCATION-9602140509-12> :=  
LOCALE: "Mexico"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Mexico"  
<LOCATION-9602140509-13> :=  
LOCALE: "Brazil"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "Brazil"  
<LOCATION-9602140509-14> :=  
LOCALE: "Mexico City"  
LOCALE\_TYPE: CITY  
COUNTRY: "Mexico"  
<LOCATION-9602140509-15> :=  
LOCALE: "French Guyana"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "French Guiana"  
<LOCATION-9602140509-16> :=  
LOCALE: "Bethesda"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "Maryland"  
<LOCATION-9602140509-17> :=  
LOCALE: "Paris"  
LOCALE\_TYPE: CITY  
COUNTRY: "France"  
<LOCATION-9602140509-18> :=  
LOCALE: "Newark"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "New Jersey"  
<LOCATION-9602140509-19> :=  
LOCALE: "Arlington"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
COMMENT: "Virginia"  
<EMPLOYEE\_OF-9602140509-1> :=  
PERSON: <ENTITY-9602140509-24>  
ORGANIZATION: <ENTITY-9602140509-2>  
<EMPLOYEE\_OF-9602140509-2> :=  
PERSON: <ENTITY-9602140509-25>  
ORGANIZATION: <ENTITY-9602140509-2>  
<EMPLOYEE\_OF-9602140509-3> :=

PERSON: <ENTITY-9602140509-27>  
ORGANIZATION: <ENTITY-9602140509-3>  
<EMPLOYEE\_OF-9602140509-4> :=  
PERSON: <ENTITY-9602140509-28>  
ORGANIZATION: <ENTITY-9602140509-4>  
<EMPLOYEE\_OF-9602140509-5> :=  
PERSON: <ENTITY-9602140509-29>  
ORGANIZATION: <ENTITY-9602140509-11>  
<EMPLOYEE\_OF-9602140509-6> :=  
PERSON: <ENTITY-9602140509-30>  
ORGANIZATION: <ENTITY-9602140509-14>  
<EMPLOYEE\_OF-9602140509-7> :=  
PERSON: <ENTITY-9602140509-31>  
ORGANIZATION: <ENTITY-9602140509-17>  
<EMPLOYEE\_OF-9602140509-8> :=  
PERSON: <ENTITY-9602140509-32>  
ORGANIZATION: <ENTITY-9602140509-20>  
<EMPLOYEE\_OF-9602140509-9> :=  
PERSON: <ENTITY-9602140509-33>  
ORGANIZATION: <ENTITY-9602140509-22>  
<PRODUCT\_OF-9602140509-1> :=  
ARTIFACT: <ENTITY-9602140509-34>  
ORGANIZATION: <ENTITY-9602140509-6>  
<PRODUCT\_OF-9602140509-2> :=  
ARTIFACT: <ENTITY-9602140509-35>  
ORGANIZATION: <ENTITY-9602140509-7>  
<LOCATION\_OF-9602140509-1> :=  
LOCATION: <LOCATION-9602140509-3>  
ORGANIZATION: <ENTITY-9602140509-3>  
<LOCATION\_OF-9602140509-2> :=  
LOCATION: <LOCATION-9602140509-5>  
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*Last Modified November 1998*

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## Scenario Template Key

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LAUNCH\_DATE: <TIME-9602140509-1>  
/ <TIME-9602140509-2>  
LAUNCH\_SITE: <LOCATION-9602140509-1>  
MISSION\_TYPE: CIVILIAN  
MISSION\_FUNCTION: DEPLOY  
MISSION\_STATUS: FAILED  
<LAUNCH\_EVENT-9602140509-2> :=  
PAYLOAD\_INFO: <PAYLOAD\_INFO-9602140509-2>  
LAUNCH\_DATE: <TIME-9602140509-3>  
/ <TIME-9602140509-4>  
LAUNCH\_SITE: <LOCATION-9602140509-15>  
MISSION\_TYPE: CIVILIAN  
MISSION\_FUNCTION: DEPLOY  
MISSION\_STATUS: FAILED  
<VEHICLE\_INFO-9602140509-1> :=  
VEHICLE: <ENTITY-9602140509-34>  
VEHICLE\_TYPE: ROCKET  
VEHICLE\_OWNER: <ENTITY-9602140509-6>  
<PAYLOAD\_INFO-9602140509-1> :=  
PAYLOAD: <ENTITY-9602140509-35>  
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PAYLOAD\_OWNER: <ENTITY-9602140509-3>  
PAYLOAD\_MAN: <ENTITY-9602140509-7>  
PAYLOAD\_ORIGIN: <LOCATION-9602140509-3>  
PAYLOAD\_RECIP: <ENTITY-9602140509-4>  
<ENTITY-9602140509-5>  
<ENTITY-9602140509-9>  
<ENTITY-9602140509-10>  
COMMENT: "failed launch; Bloomberg in negotiation"  
<PAYLOAD\_INFO-9602140509-2> :=  
PAYLOAD: <ENTITY-9602140509-36>  
PAYLOAD\_TYPE: SATELLITE  
PAYLOAD\_FUNC: TV  
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PAYLOAD\_MAN: <ENTITY-9602140509-7>  
PAYLOAD\_ORIGIN: <LOCATION-9602140509-3>  
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<ENTITY-9602140509-3> :=  
ENT\_NAME: "Intelsat"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "a global supplier of international satellite communication services"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-4> :=  
ENT\_NAME: "News Corp."  
"News Corporation"

ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-5> :=  
ENT\_NAME: "Tele-Communications Inc."  
"TCI"  
ENT\_TYPE: ORGANIZATION  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-6> :=  
ENT\_NAME: "China Great Wall Industry Corp."  
ENT\_TYPE: ORGANIZATION  
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<ENTITY-9602140509-7> :=  
ENT\_NAME: "Loral Corp."  
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ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-9> :=  
ENT\_NAME: "Grupo Televisa SA"  
"Televisa"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "Mexico's biggest broadcaster"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-10> :=  
ENT\_NAME: "Organizacoes Globo"  
ENT\_TYPE: ORGANIZATION  
ENT\_DESCRIPTOR: "Brazil's largest media company"  
ENT\_CATEGORY: ORG\_CO  
<ENTITY-9602140509-34> :=  
ENT\_NAME: "Long March 3B"  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "A Chinese rocket carrying an Intelsat satellite"  
/ "A Chinese rocket"  
/ "Long March 3B rocket"  
/ "Long March 3B rocket for today's failed launch"  
/ "Long March 3B rocket for today's failed launch of a satellite built by Loral Corp. of New York for Intelsat"  
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COMMENT: "too many logically possible alternatives"  
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/ "spacecraft"  
/ "satellite built by Loral Corp. of New York for Intelsat"  
/ "satellite built by Loral Corp. of New York"  
/ "satellite built by Loral Corp."  
/ "satellite"  
/ "one of three satellites to be used for a new direct-to-home subscription-based television service in Latin America scheduled to begin in May"  
/ "the satellite destroyed today"  
ENT\_CATEGORY: ART\_AIR  
<ENTITY-9602140509-36> :=  
ENT\_TYPE: ARTIFACT  
ENT\_DESCRIPTOR: "a second Intelsat satellite"  
ENT\_CATEGORY: ART\_AIR  
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LOCALE: "Xichang"  
LOCALE\_TYPE: CITY  
/ PROVINCE  
COUNTRY: "China"  
COMMENT: "China"  
<LOCATION-9602140509-3> :=

LOCALE: "Washington"  
LOCALE\_TYPE: CITY  
COUNTRY: "United States"  
<LOCATION-9602140509-15> :=  
LOCALE: "French Guyana"  
LOCALE\_TYPE: COUNTRY  
COUNTRY: "French Guiana"  
<TIME-9602140509-1> :=  
START: 15021996  
END: 15021996  
DESCRIPTOR: "today"  
/ "Feb. 15"  
COMMENT: "China time"  
<TIME-9602140509-2> :=  
START: 14021996  
END: 14021996  
DESCRIPTOR: "today"  
/ "02-14-96"  
COMMENT: "dateline"  
<TIME-9602140509-3> :=  
START: 15021996  
END: 29021996  
DESCRIPTOR: "later this month"  
COMMENT: "after today"  
<TIME-9602140509-4> :=  
START: 19021996  
END: 29021996  
DESCRIPTOR: "later this month"  
COMMENT: "late Feb."

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BC-MURDOCH-SATELLITE-NYT

MURDOCH SATELLITE FOR LATIN PROGRAMMING EXPLODES ON TAKEOFF

(kd)

By MARK LANDLER

c.1996 N.Y. Times News Service

</PREAMBLE>

<TEXT>

<p>

A Chinese rocket carrying a television satellite exploded seconds after launch Wednesday, dealing a potential blow to Rupert Murdoch's ambitions to offer satellite programming in Latin America.

<p>

Murdoch's News Corp. is one of four media companies in a partnership that had leased space on the Intelsat satellite to offer the Latin American service. The other partners are Tele-Communications Inc., the nation's largest cable operator; Grupo Televisa SA, the Mexican broadcaster and publisher, and the giant Brazilian media conglomerate Globo.

<p>

Llennel Evangelista, a spokesman for Intelsat, a global satellite consortium based in Washington, said the accident occurred at 2 p.m. EST Wednesday, or early Thursday morning at the Xichang launch site in Sichuan Province in southwestern China. ``We have no details on what caused the accident," he said.

<p>

Evangelista said the Chinese-built Long March rocket veered off course and was destroyed after it failed to reach orbit. Intelsat was using the Long March rocket for the first time to launch one of its satellites. Intelsat currently has 23 satellites in orbit.

<p>

A spokesman for News Corp., Howard Rubenstein, said the accident would not hinder the group's plans to offer 150 channels of entertainment, news and sports programming to viewers in Latin America and the Caribbean.

<p>

``News Corp. has a number of other real options and will disclose them shortly," Rubenstein said in a statement.

<p>

Grupo Televisa and Globo plan to offer national and local programming in Spanish and Portuguese. Initially, the venture's partners said they planned to invest \$500 million.

<p>

But a similar explosion last year delayed the plans of several American media companies to offer a package of satellite television services in Asia. Viacom, Time Warner's Home Box Office and Turner

Broadcasting System were among the companies that had leased space on an Apstar 2 satellite to beam MTV, CNN and other channels throughout Asia.

<p>

After the rocket carrying that satellite exploded, media analysts said the companies had to settle for space on a series of regional satellites, which had less reach than the Apstar 2 would have offered.

<p>

News Corp. actually benefited from that accident. In 1993, the company had purchased a controlling stake in a rival Asian satellite service, Star TV. With his biggest competitors unable to enter the Asian market, Murdoch was able to build Star TV into the dominant programming service.

<p>

A spokeswoman for Tele-Communications, LaRae Marsik, said the partners in the Latin American venture intended to begin service by the end of 1996. When the companies announced their plans last November, they said they planned to be in business by May.

<p>

Ms. Marsik said Tele-Communications and its partners had a back-up plan, which could include leasing space on another satellite, but she declined to offer details. "It is an unfortunate incident," she said, "but it is not a make-it-or-break-it event for us."

<p>

Jessica Reif, a media analyst at Merrill Lynch & Co., said, "If they can get up and running with exclusive programming within six months, it doesn't set the venture back that far."

<p>

Hughes Electronics, a subsidiary of the General Motors Corp., is starting its own satellite broadcast service in Latin America. Ms. Reif said that venture, which is based on Hughes's DirecTV service in the United States, would benefit if the explosion delayed the Murdoch-led venture.

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NYT-02-14-96 2029EST

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<ENAMEX TYPE="PERSON">MURDOCH</ENAMEX> SATELLITE FOR LATIN PROGRAMMING  
EXPLODES ON TAKEOFF

(kd)

By <ENAMEX TYPE="PERSON">MARK LANDLER</ENAMEX>

c.<TIMEX TYPE="DATE">1996</TIMEX> <ENAMEX TYPE="ORGANIZATION">N.Y. Times News  
Service</ENAMEX>

</PREAMBLE>

<TEXT>

<p>

A Chinese rocket carrying a television satellite exploded  
seconds after launch <TIMEX TYPE="DATE">Wednesday</TIMEX>, dealing a potential blow to <ENAMEX  
TYPE="PERSON">Rupert  
Murdoch</ENAMEX>'s ambitions to offer satellite programming in <ENAMEX TYPE="LOCATION">Latin  
America</ENAMEX>.

<p>

<ENAMEX TYPE="PERSON">Murdoch</ENAMEX>'s <ENAMEX TYPE="ORGANIZATION">News  
Corp.</ENAMEX> is one of four media companies in a  
partnership that had leased space on the <ENAMEX TYPE="ORGANIZATION">Intelsat</ENAMEX> satellite to  
offer the Latin American service. The other partners are  
<ENAMEX TYPE="ORGANIZATION">Tele-Communications Inc.</ENAMEX>, the nation's largest cable operator;  
<ENAMEX TYPE="ORGANIZATION">Grupo Televisa SA</ENAMEX>, the Mexican broadcaster and publisher,  
and the  
giant Brazilian media conglomerate <ENAMEX TYPE="ORGANIZATION">Globo</ENAMEX>.

<p>

<ENAMEX TYPE="PERSON">Llennel Evangelista</ENAMEX>, a spokesman for <ENAMEX  
TYPE="ORGANIZATION">Intelsat</ENAMEX>, a global  
satellite consortium based in <ENAMEX TYPE="LOCATION">Washington</ENAMEX>, said the accident  
occurred at <TIMEX TYPE="TIME">2 p.m. EST</TIMEX> <TIMEX TYPE="DATE">Wednesday</TIMEX>, or  
<TIMEX TYPE="TIME">early Thursday morning</TIMEX> at the  
<ENAMEX TYPE="LOCATION">Xichang</ENAMEX> launch site in <ENAMEX TYPE="LOCATION">Sichuan  
Province</ENAMEX> in southwestern <ENAMEX TYPE="LOCATION">China</ENAMEX>. ``We  
have no details on what caused the accident," he said.

<p>

<ENAMEX TYPE="PERSON">Evangelista</ENAMEX> said the Chinese-built Long March rocket veered off  
course and was destroyed after it failed to reach orbit. <ENAMEX TYPE="ORGANIZATION">Intelsat</ENAMEX>  
was using the Long March rocket for the first time to launch one of  
its satellites. <ENAMEX TYPE="ORGANIZATION">Intelsat</ENAMEX> currently has 23 satellites in orbit.

<p>

A spokesman for <ENAMEX TYPE="ORGANIZATION">News Corp.</ENAMEX>, <ENAMEX  
TYPE="PERSON">Howard Rubenstein</ENAMEX>, said the accident  
would not hinder the group's plans to offer 150 channels of  
entertainment, news and sports programming to viewers in <ENAMEX TYPE="LOCATION">Latin  
America</ENAMEX> and the <ENAMEX TYPE="LOCATION">Caribbean</ENAMEX>.

<p>

``<ENAMEX TYPE="ORGANIZATION">News Corp.</ENAMEX> has a number of other real options and will

disclose them shortly," <ENAMEX TYPE="PERSON">Rubinstein</ENAMEX> said in a statement.

<p>

<ENAMEX TYPE="ORGANIZATION">Grupo Televisa</ENAMEX> and <ENAMEX TYPE="ORGANIZATION">Globo</ENAMEX> plan to offer national and local programming in Spanish and Portuguese. Initially, the venture's partners said they planned to invest <NUMEX TYPE="MONEY">\$500 million</NUMEX>.

<p>

But a similar explosion <TIMEX TYPE="DATE">last year</TIMEX> delayed the plans of several American media companies to offer a package of satellite television services in <ENAMEX TYPE="LOCATION">Asia</ENAMEX>. <ENAMEX TYPE="ORGANIZATION">Viacom</ENAMEX>, <ENAMEX TYPE="ORGANIZATION">Time Warner</ENAMEX>'s <ENAMEX TYPE="ORGANIZATION">Home Box Office</ENAMEX> and <ENAMEX TYPE="ORGANIZATION">Turner Broadcasting System</ENAMEX> were among the companies that had leased space on an Apstar 2 satellite to beam MTV, CNN and other channels throughout <ENAMEX TYPE="LOCATION">Asia</ENAMEX>.

<p>

After the rocket carrying that satellite exploded, media analysts said the companies had to settle for space on a series of regional satellites, which had less reach than the Apstar 2 would have offered.

<p>

<ENAMEX TYPE="ORGANIZATION">News Corp.</ENAMEX> actually benefited from that accident. In <TIMEX TYPE="DATE">1993</TIMEX>, the company had purchased a controlling stake in a rival Asian satellite service, <ENAMEX TYPE="ORGANIZATION" STATUS="OPT">Star TV</ENAMEX>. With his biggest competitors unable to enter the Asian market, <ENAMEX TYPE="PERSON">Murdoch</ENAMEX> was able to build <ENAMEX TYPE="ORGANIZATION" STATUS="OPT">Star TV</ENAMEX> into the dominant programming service.

<p>

A spokeswoman for <ENAMEX TYPE="ORGANIZATION">Tele-Communications</ENAMEX>, <ENAMEX TYPE="PERSON">LaRae Marsik</ENAMEX>, said the partners in the Latin American venture intended to begin service by <TIMEX TYPE="DATE">the end of 1996</TIMEX>. When the companies announced their plans <TIMEX TYPE="DATE">last November</TIMEX>, they said they planned to be in business by <TIMEX TYPE="DATE">May</TIMEX>.

<p>

Ms. <ENAMEX TYPE="PERSON">Marsik</ENAMEX> said <ENAMEX TYPE="ORGANIZATION">Tele-Communications</ENAMEX> and its partners had a back-up plan, which could include leasing space on another satellite, but she declined to offer details. ``It is an unfortunate incident," she said, ``but it is not a make-it-or-break-it event for us."

<p>

<ENAMEX TYPE="PERSON">Jessica Reif</ENAMEX>, a media analyst at <ENAMEX TYPE="ORGANIZATION">Merrill Lynch & Co.</ENAMEX>, said, ``If they can get up and running with exclusive programming <TIMEX TYPE="DATE" STATUS="OPT">within six months</TIMEX>, it doesn't set the venture back that far."

<p>

<ENAMEX TYPE="ORGANIZATION">Hughes Electronics</ENAMEX>, a subsidiary of the <ENAMEX TYPE="ORGANIZATION">General Motors Corp.</ENAMEX>, is starting its own satellite broadcast service in <ENAMEX TYPE="LOCATION">Latin America</ENAMEX>. Ms. <ENAMEX TYPE="PERSON">Reif</ENAMEX> said that venture, which is based on <ENAMEX TYPE="ORGANIZATION">Hughes</ENAMEX>'s <ENAMEX TYPE="ORGANIZATION" STATUS="OPT">DirecTV</ENAMEX> service in the <ENAMEX TYPE="LOCATION">United States</ENAMEX>, would benefit if the explosion delayed the <ENAMEX TYPE="PERSON">Murdoch</ENAMEX>-led venture.

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## Coreference Text

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BC-HUGHES-FCC-BLOOM

GM, GE PROJECTS LIKELY TO GET NEEDED AIRWAVES FROM FCC THURSDAY

(For use by New York Times News Service clients)

By Liza McDonald

c.1996 Bloomberg Business News

</PREAMBLE>

<TEXT>

<p>

Washington, Sept. 10 (Bloomberg) -- Satellite systems to deliver video services to Latin America planned by General Motors Corp.'s Hughes Electronics Corp. and General Electric Co. are likely to get the airwaves they need from federal regulators.

<p>

Plans for Hughes' Galaxy VIII(I) project and GE's GE Americom project depend on the Federal Communications Commission's allocation of a swath of spectrum that will let their earth stations communicate with satellites in space.

<p>

Scheduled for a vote at the agency's meeting on Thursday, the expected allocation will let the companies transmit video pictures, phone calls, and other data from earth stations to orbiting satellites, and then to customers in Mexico, the Caribbean, Central America, and South America.

<p>

Both companies said they expect to use the systems primarily to deliver digital video services to Latin American subscribers' own dishes and to cable company receivers for distribution to cable subscribers.

<p>

Mexico's Grupo Televisa SA, Multivision SA and Medcom SA all have plans to deliver direct-to-home video satellite service to Mexico within a year.

<p>

Televisa, Mexico's largest broadcaster, has formed an agreement with Rupert Murdoch's News Corp., Brazil's Globo television network, and Denver-based Tele-Communications Inc. to offer direct-to-home service throughout Latin America.

<p>

Turner Broadcasting System Inc., for its part, agreed in July to distribute Cable News Network and three other cable channels to Latin American subscribers together with a group called Galaxy Latin America, composed of GM's DirecTV, Venezuela's Cisneros Group of Cos., Brazil's Televisao Abril, and Mexico's MVS Multivision.

<p>

Hughes' Galaxy VIII(I) plan would use one satellite, which the company estimates will cost \$230 million to build and launch.

Hughes expects Galaxy VIII(I) will bring in \$30 million in revenue in its first year and \$58 million each year for the following 11 years, according to filings at the FCC.

<p>

GE Americom filed its cost and revenue assumptions confidentially at the agency. Its plan calls for two satellites and a spare.

<p>

The plans are significant, said Scott Blake Harris, former FCC international bureau chief, as ``yet another indication of the health and strength of the U.S. satellite industry."

<p>

The airwaves to be allocated are currently used by the National Aeronautics and Space Administration for its tracking and data relay system. The system, among other things, monitors the Space Shuttle, helps to retrieve satellites, and relays communications between ground stations and low-orbiting spacecraft including the Shuttle. Those functions are likely to be slowly shifted to another slice of spectrum, while the airwaves they've historically used are turned over, in part, to satellite services such as the ones planned by GE and GM. Other companies that support the allocation and may use it include Lockheed Martin Corp.'s Loral Space and Communications, International Private Satellite Partners/Orion Atlantic Capital Corp., and Comsat Corp.

<p>

No opposing comments on the allocation were filed at the agency.

<p>

The spectrum shift comes at Hughes' initiative. The company asked the FCC in March of 1995 to fix an imbalance in the uplink and downlink airwaves available to fixed satellite services so that the spectrum could be more effectively used.

<p>

``The downlink bands are not paired with any uplink bands," the company wrote. Indeed, for 1000 megahertz allocated for satellite downlinks, or transmissions from satellites to earth stations, the agency had only set aside 500 megahertz for uplinks. That's meant that half of the downlink capacity has been unusable, because no corresponding uplink airwaves existed.

<p>

``It is . . . critical to the competitiveness of the United States satellite industry, both at home and abroad, that the commission allocate" more airwaves for fixed satellite uplinks, Hughes said.

<p>

A similar plan was set by the International Telecommunications Union at the World Administrative Radio Conference in 1992, and adopted at the same meeting in 1995.

<p>

The plan hadn't yet been implemented in the U.S. because interference with NASA's radar functions hadn't been worked out.

<p>

Also at Thursday's meeting, the FCC plans to formalize the process public utility companies use to become certified as telecommunications providers.

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NYT-09-10-96 1604EDT

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By Liza McDonald  
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Hughes Electronics Corp.</COREF> and <COREF ID="12" TYPE="IDENT" REF="13">General Electric  
Co.</COREF></COREF></COREF> are likely to get  
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stations communicate with satellites in space.  
<p>  
Scheduled for a vote at the <COREF ID="109" MIN="meeting"><COREF ID="25" TYPE="IDENT"  
REF="23">agency</COREF>'s meeting</COREF> on <COREF ID="26" TYPE="IDENT"  
REF="27">Thursday</COREF>, the  
<COREF ID="28" TYPE="IDENT" REF="29" MIN="allocation">expected allocation</COREF> will let the  
<COREF ID="30" TYPE="IDENT" REF="31">companies</COREF> transmit video pictures,  
phone calls, and other data from earth stations to orbiting  
satellites, and then to customers in <COREF ID="36">Mexico</COREF>, the Caribbean, Central  
America, and South America.  
<p>  
<COREF ID="32" TYPE="IDENT" REF="30" MIN="companies">Both companies</COREF> said <COREF  
ID="33" TYPE="IDENT" REF="32">they</COREF> expect to use <COREF ID="34" TYPE="IDENT"  
REF="16">the systems</COREF> primarily to  
deliver digital video services to Latin American subscribers' own

dishes and to cable company receivers for distribution to cable subscribers.

<p>

<COREF ID="39" MIN="Grupo Televisa SA"><COREF ID="35" TYPE="IDENT" REF="36">Mexico</COREF>'s Grupo Televisa SA</COREF>, Multivision SA and Medcom SA all have plans to deliver direct-to-home video satellite service to <COREF ID="37" TYPE="IDENT" REF="35">Mexico</COREF> within a year.

<p>

<COREF ID="38" TYPE="IDENT" REF="39" MIN="Televisa">Televisa, <COREF ID="41" TYPE="IDENT" REF="38" MIN="broadcaster"><COREF ID="40" TYPE="IDENT" REF="37">Mexico</COREF>'s largest broadcaster</COREF>,</COREF> has formed an agreement with Rupert Murdoch's News Corp., <COREF ID="51">Brazil</COREF>'s Globo television network, and Denver-based Tele-Communications Inc. to offer direct-to-home service throughout <COREF ID="42" TYPE="IDENT" REF="43">Latin America</COREF>.

<p>

<COREF ID="45">Turner Broadcasting System Inc.</COREF>, for <COREF ID="44" TYPE="IDENT" REF="45">its</COREF> part, agreed in July to distribute Cable News Network and three other cable channels to Latin American subscribers together with a <COREF ID="46" TYPE="IDENT" REF="47">group</COREF> called <COREF ID="47">Galaxy Latin America</COREF>, composed of <COREF ID="49" TYPE="IDENT" REF="47" STATUS="OPT"><COREF ID="48" TYPE="IDENT" REF="10">GM</COREF>'s DirecTV, Venezuela's Cisneros Group of Cos., <COREF ID="50" TYPE="IDENT" REF="51">Brazil</COREF>'s Televisao Abril, and <COREF ID="52" TYPE="IDENT" REF="40">Mexico</COREF>'s MVS Multivision</COREF>.

<p>

<COREF ID="53" TYPE="IDENT" REF="19">Hughes</COREF>' <COREF ID="54" TYPE="IDENT" REF="55">Galaxy VIII(I)</COREF> plan would use one satellite, which the <COREF ID="56" TYPE="IDENT" REF="53">company</COREF> estimates will cost \$230 million to build and launch.

<COREF ID="57" TYPE="IDENT" REF="56">Hughes</COREF> expects <COREF ID="58" TYPE="IDENT" REF="54">Galaxy VIII(I)</COREF> will bring in <COREF ID="60">\$30 million</COREF> in <COREF ID="59" TYPE="IDENT" REF="60">revenue</COREF> in <COREF ID="61" TYPE="IDENT" REF="58">its</COREF> first year and \$58 million each year for the following 11 years, according to filings at the <COREF ID="62" TYPE="IDENT" REF="25">FCC</COREF>.

<p>

<COREF ID="63" TYPE="IDENT" REF="64">GE Americom</COREF> filed <COREF ID="65" TYPE="IDENT" REF="63">its</COREF> cost and revenue assumptions confidentially at the <COREF ID="66" TYPE="IDENT" REF="62">agency</COREF>. <COREF ID="67" TYPE="IDENT" REF="65">Its</COREF> plan calls for two satellites and a spare.

<p>

The <COREF ID="68" TYPE="IDENT" REF="69">plans</COREF> are significant, said <COREF ID="71" MIN="Scott Blake Harris">Scott Blake Harris, <COREF ID="70" TYPE="IDENT" REF="71" MIN="chief">former FCC international bureau chief</COREF>,</COREF> as ``yet another indication of the health and strength of the <COREF ID="96" MIN="industry"><COREF ID="98">U.S.</COREF> satellite industry</COREF>."

<p>

The <COREF ID="72" TYPE="IDENT" REF="14" MIN="airwaves">airwaves to be allocated</COREF> are currently used by the <COREF ID="74">National Aeronautics and Space Administration</COREF> for <COREF ID="76" MIN="system"><COREF ID="73" TYPE="IDENT" REF="74">its</COREF> tracking and data relay system</COREF>. The <COREF ID="75" TYPE="IDENT" REF="76">system</COREF>, among other things, monitors the <COREF ID="78">Space Shuttle</COREF>, helps to retrieve satellites, and relays communications between ground stations and low-orbiting spacecraft including the <COREF ID="77" TYPE="IDENT" REF="78">Shuttle</COREF>. <COREF ID="81" MIN="functions">Those functions</COREF> are likely to be slowly shifted to another

slice of spectrum, while the <COREF ID="79" TYPE="IDENT" REF="72" MIN="airwaves">airwaves <COREF ID="80" TYPE="IDENT" REF="81">they</COREF>ve historically used</COREF> are turned over, in part, to satellite services such as the ones planned by <COREF ID="82" TYPE="IDENT" REF="22">GE</COREF> and <COREF ID="83" TYPE="IDENT" REF="48">GM</COREF>. Other companies that support the <COREF ID="84" TYPE="IDENT" REF="28">allocation</COREF> and may use <COREF ID="85" TYPE="IDENT" REF="84">it</COREF> include Lockheed Martin Corp.'s Loral Space and Communications, International Private Satellite Partners/Orion Atlantic Capital Corp., and Comsat Corp.

<p>

No opposing comments on the <COREF ID="86" TYPE="IDENT" REF="85">allocation</COREF> were filed at the <COREF ID="87" TYPE="IDENT" REF="66">agency</COREF>.

<p>

The spectrum shift comes at <COREF ID="88" TYPE="IDENT" REF="57">Hughes</COREF>' initiative. The <COREF ID="89" TYPE="IDENT" REF="88">company</COREF> asked the <COREF ID="90" TYPE="IDENT" REF="87">FCC</COREF> in March of 1995 to fix an imbalance in the uplink and downlink airwaves available to fixed satellite services so that the spectrum could be more effectively used.

<p>

``The downlink bands are not paired with any uplink bands," the <COREF ID="91" TYPE="IDENT" REF="89">company</COREF> wrote. Indeed, for 1000 megahertz allocated for <COREF ID="93" MIN="downlinks">satellite downlinks</COREF>, or <COREF ID="92" TYPE="IDENT" REF="93" MIN="transmissions">transmissions from satellites to earth stations</COREF>, the <COREF ID="94" TYPE="IDENT" REF="90">agency</COREF> had only set aside 500 megahertz for uplinks. That's meant that half of the downlink capacity has been unusable, because no corresponding uplink airwaves existed.

<p>

``It is . . . critical to the competitiveness of the <COREF ID="95" TYPE="IDENT" REF="96" MIN="industry"><COREF ID="97" TYPE="IDENT" REF="98">United States</COREF> satellite industry</COREF>, both at home and abroad, that the <COREF ID="99" TYPE="IDENT" REF="94">commission</COREF> allocate" more airwaves for fixed satellite uplinks, <COREF ID="100" TYPE="IDENT" REF="91">Hughes</COREF> said.

<p>

A <COREF ID="104" MIN="plan">similar plan</COREF> was set by the International Telecommunications Union at the <COREF ID="102">World Administrative Radio Conference</COREF> in 1992, and adopted at the <COREF ID="101" TYPE="IDENT" REF="102" MIN="meeting">same meeting</COREF> in 1995.

<p>

The <COREF ID="103" TYPE="IDENT" REF="104">plan</COREF> hadn't yet been implemented in the <COREF ID="105" TYPE="IDENT" REF="97">U.S.</COREF> because interference with <COREF ID="107" TYPE="IDENT" REF="80" MIN="functions"><COREF ID="106" TYPE="IDENT" REF="73">NASA</COREF>'s radar functions</COREF> hadn't been worked out.

<p>

Also at <COREF ID="108" TYPE="IDENT" REF="109" MIN="meeting"><COREF ID="110" TYPE="IDENT" REF="26">Thursday</COREF>'s meeting</COREF>, the <COREF ID="111" TYPE="IDENT" REF="99">FCC</COREF> plans to formalize the process public utility companies use to become certified as telecommunications providers.

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