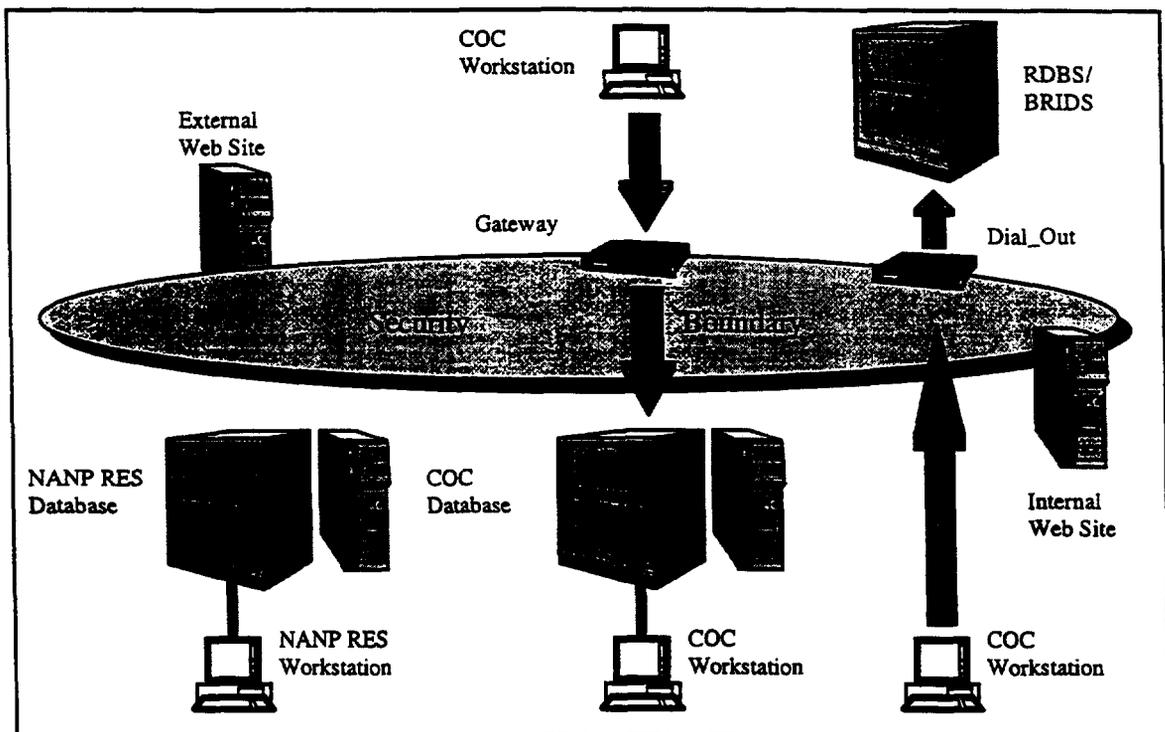


Proposal Overview

FACILITIES AND SYSTEMS

- Highly secure firewall that isolates sensitive data from the public, but allows full functionality to the authorized remote user
- RDBS/BRIDS access to enter new codes and to enter routing and rating information for enterprise service customers



Our information systems will provide the NANP Administration staff with the advanced tools needed to perform the NANPA and COCA functions:

- Automatic generation of report data
- Automatic conflict warning during resource assignment

Proposal Overview

FACILITIES AND SYSTEMS

- Application of computer tools which will have a significant impact on the timing and quality of NPA relief planning efforts
- Linking of database information with geographic display techniques, using color and three-dimensional rendering to show number density overlaid on political boundaries
- Development of effectiveness measures for code assignment situations, allowing real time assessment of alternatives in a collaborative setting
- Application of advanced forecasting techniques to the number exhaust problem

We have also employed the required security and reliability features:

- Restricted database permission based on user's identity and need-to-know
- Nightly backup of all data with secure, offsite storage and capability to reconstitute operations at a physically diverse site

Our information systems will also provide the electronic, collaborative tools required to ensure peak effectiveness for a geographically dispersed organization; for example, administrative systems that include Lotus Notes collaborative software and an event logging and tracking system. ■

Proposal Overview

MITRETEK—THE NEW ADMINISTRATOR FOR THE NANP

Mitretek—The New Administrator for the NANP

Mitretek's establishment of the new NANP Administration will provide the NANC with not only a neutral entity free from market-, profit-, and technology-related conflicts, but also with a dedicated, responsible Administrator experienced in numbering plan administration and telecommunications. The new NANP Administrator will administer and allocate numbering resources critical to the telecommunications industry. This is a responsibility we are prepared and willing to take on—we have already dedicated existing staff to our NANP team, we have already added experienced numbering plan and code administration professionals, we have already begun to build and bring on-line our NANP Administration information systems and databases. We are uniquely qualified to be the new NANP Administrator:

- Mitretek is ready to serve as the new NANP Administration. Our response is fully compliant and takes no exceptions to the NANC Requirements Document.
- Mitretek last year met, today meets, and in the future will continue to meet and exceed the neutrality requirements necessary to effectively administer and allocate public NANP resource.
- The entire Mitretek organization—Board of Trustees, corporate officers, NANP Administration managers, and staff—is dedicated to administering the NANP in a high-quality, responsive manner that meets the needs of industry and serves the public.

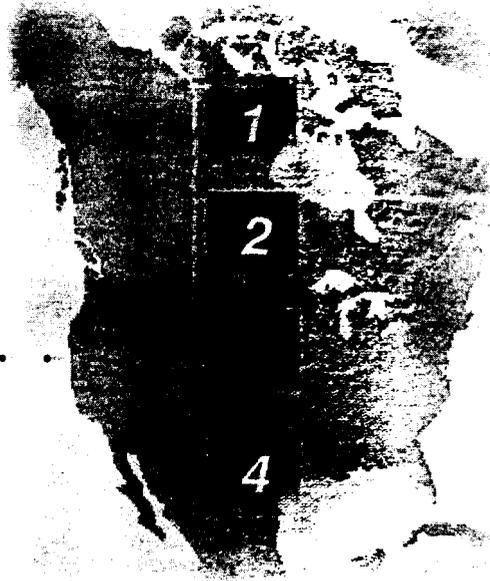
Proposal Overview

MITRETEK—THE NEW ADMINISTRATOR FOR THE NANP

- Mitretek brings the appropriate corporate and staff experience required for NANP administration in a changing telecommunications industry and market. Mitretek has already retained professionals experienced in numbering plan and code administration to complement existing professionals experienced in telecommunications and computer system design, usage, and operations.
- Mitretek will bring numbering data quality and analytical sophistication appropriate for the North American telecommunications industry and market as it enters the new millennium:
 - Mitretek neutrality is the key to more accurate data and better plans and solutions
 - Mitretek will bring a new level of quantitative and analytic sophistication for forecasting allocation and relief planning
 - Mitretek will deploy modern, fully redundant, physically-diverse, client/server-based systems to support all phases of numbering plan administration
- Mitretek provides a logical, incremental transition strategy that will ensure a smooth, error-free, seamless transition. One hundred percent of the Mitretek team that will transition the NANPA function in the first 60 days is dedicated and already working in McLean, Virginia.
- Mitretek's not-for-profit structure and cost-efficient operation provides a fair and reasonable price. ■

Respondent Information

April 1 9 9 7



NORTH AMERICAN NUMBERING COUNCIL
North American Numbering Plan Administration

Table of Contents

RESPONDENT INFORMATION

Section	Page
Description of Mitretek Business	2
Mitretek Financial Information	11
Additional Information	16
List of Company Officers	19
Performance Bond	21
Legal Proceedings	22
References	23

List of Figures

RESPONDENT INFORMATION

Figure		Page
1	Mitretek Organization	4
2	Mitretek Financial Statements	12
3	Mitretek Corporate Officers	19
4	Mitretek Board of Trustees	20

Respondent Information

RESPONDENT INFORMATION

In compliance with the North American Numbering Council (NANC) Requirements

Document, Mitretek provides the following information:

- Description of Mitretek business
- Mitretek financial information
- Additional information
- List of company officers
- Performance bond
- Legal proceedings
- References ■

Description of Mitretek Business

RESPONDENT INFORMATION

Mitretek was formed in January 1996 following a decision by The MITRE Corporation Board of Trustees to divide the company into two independent organizations.

The new company, Mitretek, received the Center for Telecommunications and Advanced Technology, Center for Information Systems, and the Center for Environment, Resources, and Space—over 700 staff—representing thousands of staff years of experience on programs for almost all major federal agencies, including [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] A non-profit corporation, Mitretek is dedicated to working only in the public interest. We offer our government clients a strong partner in managing the design, development, and successful implementation of complex information and telecommunications systems.¹ A short history of Mitretek is provided in Appendix H.

Mitretek Systems provides scientific and engineering services and works exclusively in the public interest. The problems that we solve for our clients typically address complex, large, mission-critical technological systems. The system design, acquisition, and

¹ References in this proposal to work performed by Mitretek or its staff before Mitretek's incorporation was performed at MITRE by staff or organizations that transferred—all or in part—to Mitretek Systems.

Description of Mitretek Business

RESPONDENT INFORMATION

regulatory-related roles that we take on require a corporate posture that is neutral and free from any real or perceived conflict-of-interest or bias.

Mitretek is nationally recognized as a leader and innovator in the following technologies:

- Telecommunications and networking systems
- Information systems security
- Client/server systems
- Large-scale databases
- Software systems
- Environmental systems

As shown in Figure 1, Mitretek consists of four operational centers. For the purpose of the NANP Administration, the Center for Telecommunications and Advanced Technology is the lead center and is further discussed below. Our Center for Information Systems and Center for Environmental and Resource Management provide support to a wide variety of government clients in the areas of large-scale information systems, client-server systems, and environment analysis. All three centers are assisted by our Technical Resource Center, which provides matrixed support in the areas of software systems, information system security, and system costing and analysis.

Description of Mitretek Business

RESPONDENT INFORMATION



Additional information related to Mitretek's business areas is provided in the 1996 Mitretek Annual Report, which may be found at Appendix D of this proposal. We now discuss the Center for Telecommunications and Advanced Technology in more detail.

Center for Telecommunications and Advanced Technology Overview

The proposed Mitretek NANP Administration will be an independent component of our Center for Telecommunications and Advanced Technology. Mitretek's Center for Telecommunications and Advanced Technology specializes in telecommunications and networking systems engineering, network and price management, and telecommunications

Description of Mitretek Business

RESPONDENT INFORMATION

services procurement. The Center works to develop strategies that allow our clients to leverage telecommunications and related technologies to better accomplish their missions.

Working for federal, state, local, and international governments, as well as several other public interest organizations, the Center has distinguished itself by providing innovative solutions to client problems and by a track record of achieving significant savings for its clients. The Center for Telecommunications and Advanced Technology has worked for some of the largest users of telecommunications (e.g., over six billion minutes of voice traffic per year), as well as small and medium sized users.

Focused solely on assisting telecommunications and networking consumers, the Center's staff of over 100 professionals (20 percent Ph.D., 50 percent Masters, 30 percent Bachelors degrees primarily in Electrical Engineering, Computer Science, Operations Research, Math, Economics, and Systems Engineering) has previous individual experience working for interexchange carriers, local exchange carriers, equipment manufacturers, and other consulting firms. We have found that many telecommunications problems require a multi-disciplinary approach to reach an optimal solution. The staff's experience and capabilities are supplemented by tools, databases, and analysis methods developed in the Center's telecommunications modeling, simulation, and prototyping laboratories.

Description of Mitretek Business

RESPONDENT INFORMATION

Center for Telecommunications and Advanced Technology

The Center for Telecommunications and Advanced Technology brings a unique blend of engineering, analytic, and economic skills to the design of user solutions. Typical activities conducted for clients:

- **Telecommunications Systems Engineering**
 - Strategic technology planning
 - Validation/audit of telecommunications systems
 - Requirements analysis
 - Architecture design
 - Private/public network tradeoff analysis
 - Capacity, throughput, interoperability, and implementation testing
 - Prototyping, feasibility testing, proof of concept demonstrations
 - Implementation and testing
- **Network and Price Optimization**
 - Optimize network topology based on cost and performance requirements
 - Price benchmarking
 - Sensitivity analysis to reflect alternative requirements and marketplace conditions
 - Facilitate savings from traffic integration
 - Analyze leased versus buy decisions
 - Exploit economics of scale in pricing and engineering

Description of Mitretek Business

RESPONDENT INFORMATION

- Telecommunications and network tools development
 - Set-up and apply commercial tools to specific client problems
 - Develop custom tools to meet client unique problems and applications
 - Design and build databases of client requirements and configurations
 - Support to tools
- Telecommunications Services Procurement
 - Design acquisition strategy
 - Develop request for proposals
 - Conduct source selection
 - Design and maintain price databases and analytical engines
 - Technology, usage pattern, and service demand forecasting
 - Perform specialized analyses

The Center for Telecommunications and Advanced Technology also has access to other Mitretek technical skills including client/server systems, software engineering, and information systems security.

Center for Telecommunications and Advanced Technology Scope

Telecommunications systems have a myriad of elements and services that must be understood to design and implement optimal solutions. These services differ in their technological development and market maturity. The Center for Telecommunications and

Description of Mitretek Business

RESPONDENT INFORMATION

Advanced Technology has capability in a broad scope of technological understanding of the technologies and services below:

	Mature Services	Advanced Services	Leading Edge Services
Value-Added Services	E-mail and messaging services Video teleconferencing Automated key management Directory services Network management Bulletin board services	Digital signatures Electronic commerce Multimedia-oriented services Security services Networked information discovery and retrieval tools	PCS applications Collaborative computing Intelligent agents Web technologies
Switched Services	Wide area networks Local area networks PBX/Centrex Private dedicated nets Virtual private networks 800 and 900 services Switched video ISDN, SMDS, Frame relay Packet switched data-X.25 Wireless voice (cellular) IP router networks Satellite services	ATM switched (e.g., OC-3, OC-12, OC-48, interfaces) Wireless data (CDPD) Land mobile radio including interface with wireline, switched voice and data services	PCS Wireless including PBXs and LANs Satellite services (LEO) Switched LANs Gigabit LANs Next Generation IP IP switching Packet voice and video
Dedicated Services	Low-speed data circuits Satellite and RF links Fractional T1, T1, T3	SONET OC3, OC-12	SONET (OC-48 and higher rates)

Center for Telecommunications and Advanced Technology Clients

Mitretek's Center for Telecommunications and Advanced Technology concentrates on the consumer (demand) side of the telecommunications marketplace but is familiar with the supply side as well. We may work with any client as long as our work is in the public interest. Representative clients include:

Description of Mitretek Business

RESPONDENT INFORMATION

[REDACTED]

[REDACTED]

Center for Telecommunications and Advanced Technology Facilities

As a research and engineering firm, Mitretek has a 30 year tradition of advancing technology through original research. The Center for Telecommunications and Advanced Technology actively invests in facilities and personnel to maintain our position as a technology leader. Current laboratories are:

Advanced Telecommunications Laboratory (ATL). A testbed specially designed to develop prototypes and conduct the feasibility analyses from the user perspective. The ATL is capable of configuring data, voice, and integrated voice/data switches, routers, and transmission equipment to simulate a user's situation. In addition to ATL equipment,

Description of Mitretek Business

RESPONDENT INFORMATION

access is also available to a number of wide area networks and services. At any one time, the ATL staff is typically testing and reviewing new equipment provided by industry.

Telecommunications Simulation Facility (TSF). The TSF serves as the foundation of the Center's network and price optimization, as well as tool development activities. The TSF contains numerous commercially-available and Mitretek-developed network analysis, simulation, and design tools. The TSF is able to address the performance, reliability, and price aspects of the Center's local area network and wide area network, dedicated to switched services, value-added services and support systems technology scope. Key to the TSF activities are a set of tools for the synthesis and optimization of voice and data networks and a set of price engines and databases required for price analysis. The TSF continues to expand to include Mitretek-developed tools for synthesis and analysis of SONET rings and ATM based networks.

Decision Support Facility (DSF). The DSF provides secure facilities to support telecommunications services and acquisition activities. The secure facilities function at the Top Secret and higher level to support the Center's clients with classified or carrier price-sensitive acquisition, or other telecommunications needs. The DSF, like the TSF, has a full complement of network price, analysis, and optimization tools available. Additionally, the DSF has a set of Lotus Notes-based applications developed by Mitretek to support the development of requests for proposals, source selection plans, and program schedules and the conduct of source selections. ■

Mitretek Financial Information

[REDACTED]

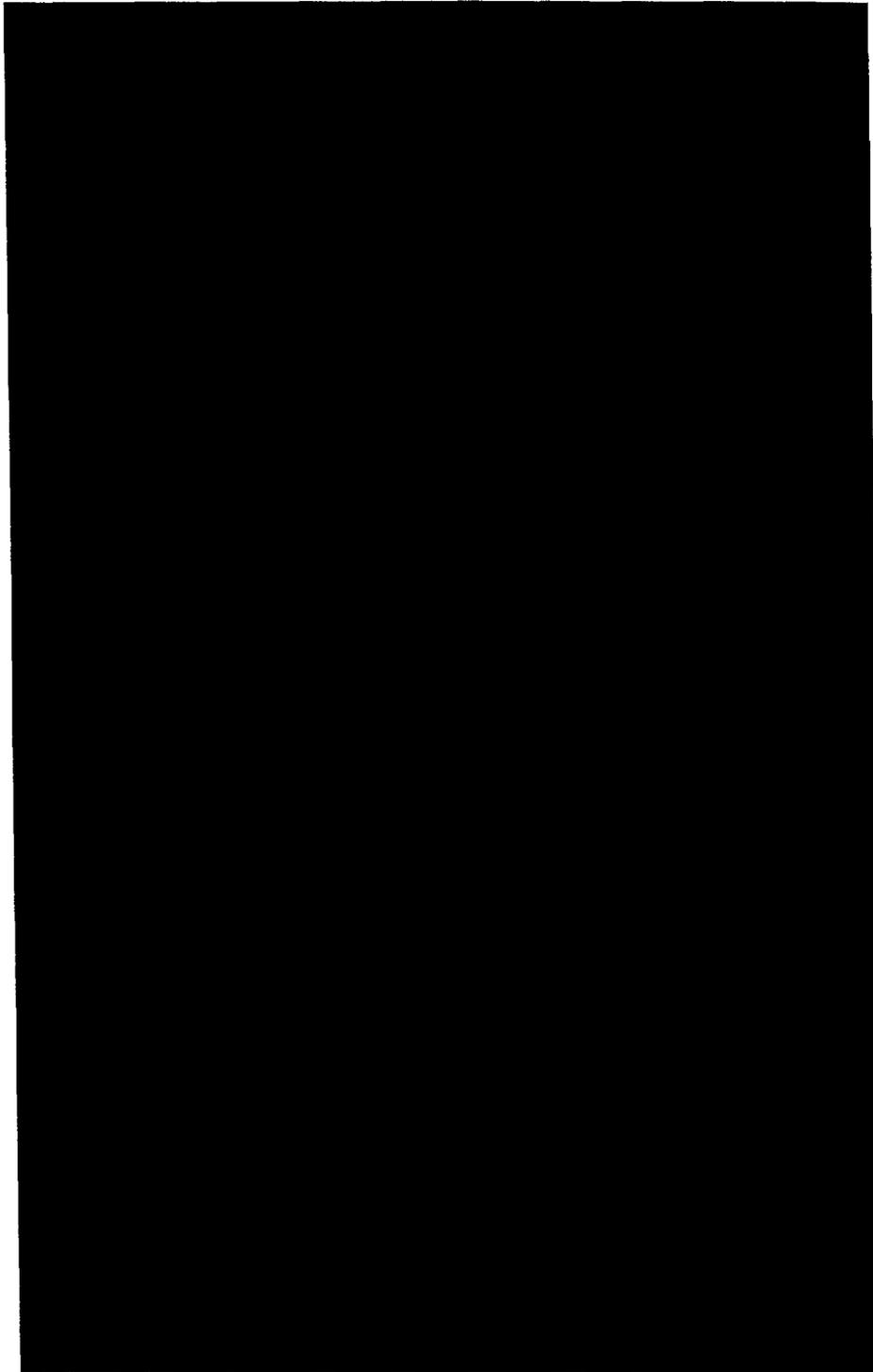
RESPONDENT INFORMATION

[REDACTED]

[REDACTED]

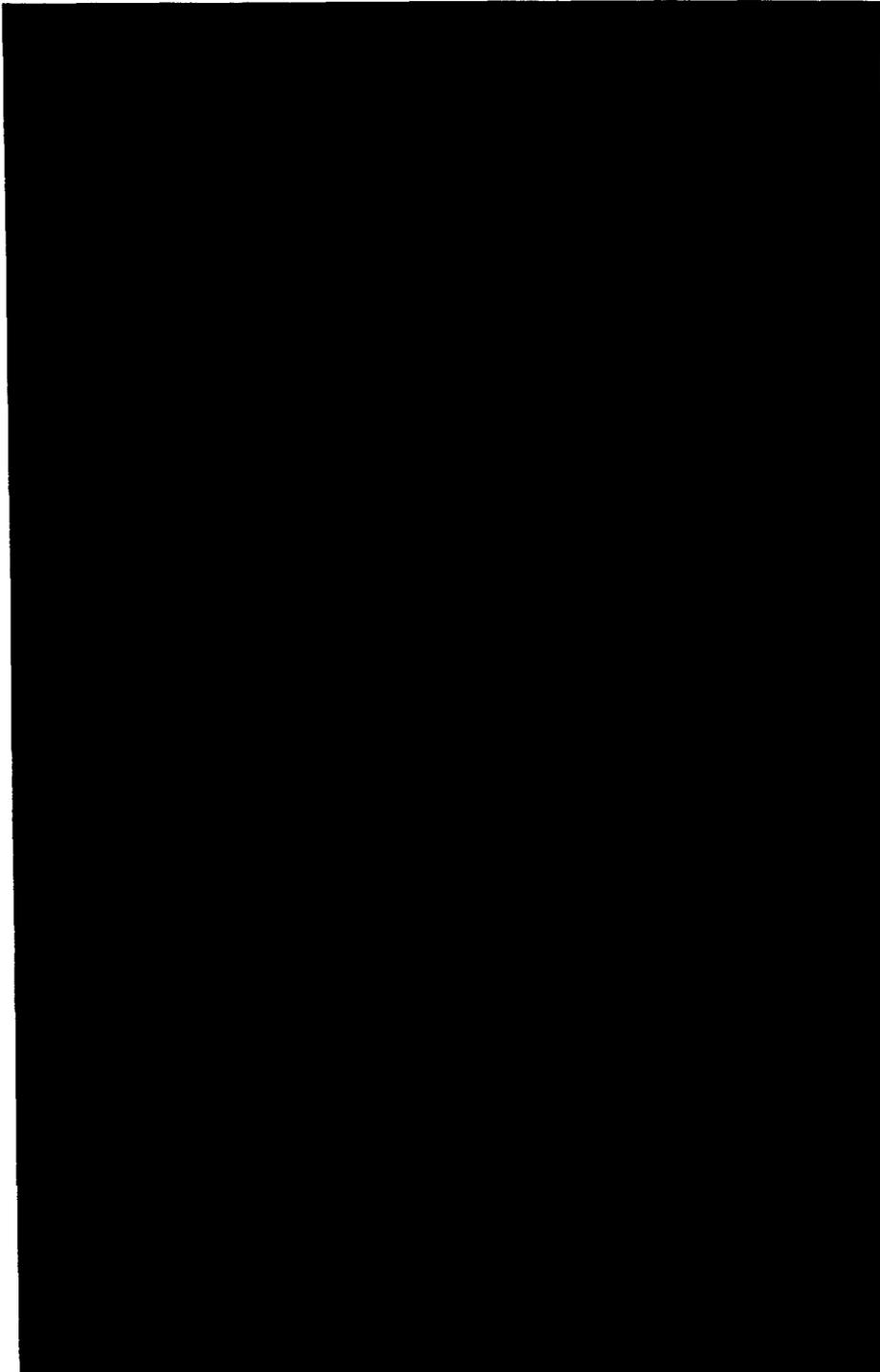
Mitretek Financial Information

RESPONDENT INFORMATION



Mitretek Financial Information

RESPONDENT INFORMATION



Mitretek Financial Information

RESPONDENT INFORMATION

[REDACTED]

[REDACTED]

Mitretek Financial Information

[REDACTED]

RESPONDENT INFORMATION

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Additional Information

RESPONDENT INFORMATION

Mitretek last year met, today meets, and in the future will continue to meet and exceed the neutrality requirements necessary to effectively administer and allocate public NANP resource. Neutrality is fundamental to the Mitretek corporate purpose of working in the public interest. Neutrality and working in the public interest are not recent add-ons to our corporate purpose, rather neutrality and working in the public interest are foundations upon which Mitretek is built. Because the corporation is uniquely organized, we can ensure the NANC that there are no current, or future, neutrality problems requiring a cure caused by relationships with carriers or incentives of our managers and staff.

Mitretek currently fully complies with the neutrality requirements contained in Section 1.2 Neutrality of the NANC Requirements Document. Mitretek has not submitted a cure plan, because we currently fully comply with the neutrality requirements and no cure plan is required. Per the Telecommunications Act of 1996 (Section 251(e)(1)), Mitretek, if recommended by the NANC and selected by the FCC, will serve as an impartial entity, administering telecommunications numbering and making such numbers available on an equitable basis. Per FCC Docket No. 92-237, Mitretek will be a non-governmental entity that is not aligned with any particular telecommunications industry segment.

Mitretek is the 100 percent owner of the Colshire Group, which in turn owns a majority of Concept Five Technologies, Incorporated. Any discussion of neutrality in this section or

Additional Information

RESPONDENT INFORMATION

in this proposal apply equally to Mitretek and these two subsidiaries. All of our conflict-of-interest practices, standards, and procedures apply equally to Mitretek and both subsidiaries. Mitretek legally retains the right to disapprove all potential clients or contracts of our subsidiaries. Our subsidiaries are not allowed to enter into any relationships with any commercial firms on the Mitretek Conflict-of-Interest List, which since our inception, has included all telecommunications services and technology providers.

Mitretek currently complies with the Neutrality Criteria, as defined in the NANC Requirements Document. Specifically:

1. Mitretek is not now, nor at anytime in the past has been, an affiliate of any telecommunications service provider(s) as defined in the Telecommunications Act of 1996;
2. Mitretek has not at anytime issued any of its debt to any telecommunications service provider. Mitretek, and its subsidiaries, has not at anytime derived any of its revenues from any telecommunications service provider; and
3. Mitretek is not now, nor in the past have been, subject to any undue influence by any party with a vested interest in the outcome of numbering administration and activities.

Mitretek welcomes any NANC evaluation to determine whether Mitretek meets the undue influence, or any other neutrality, conflict of interest, or impartiality, criterion.

Mitretek is prepared to provide to the NANC and/or the FCC any additional

Additional Information

RESPONDENT INFORMATION

information for the purposes of applying the Neutrality Criteria in Section 1.2 of the NANC Requirements Document.

Mitretek's compliance with the Neutrality Criteria is full and complete now. No additional written cure plan will be submitted. No cure is required.

Mitretek has no affiliations or associations with any telecommunications service provider. A complete disclosure of our clients (that is, the source of our revenues) is provided in Appendix A. The bank providing debt financing are enumerated in the financial statements attached in Appendix C. ■