



▶ 1.17 BILLION EUROS
MANAGEMENT CONTRACT
FOR MACRO-DESALINATION
PLANTS IN ALGERIA

▶ ACQUISITION OF
ENTEMANSER, THE CANARY
ISLAND WATER UTILITY



Cemusa in New York

Cemusa wins city furniture

COMPETING AGAINST THE WORLD'S LEADING COMMUNICATION AND ADVERTISING COMPANIES



The wholly-owned FCC subsidiary, Cemusa, integrated in FCC Versia, the city furniture and outdoor advertising specialist, was awarded a contract put out to tender by the New York City council for the installation and exploitation of advertising in the city's furniture over the next 20 years.

The world's leading companies in outdoor advertising and communications, such as Viacom, Clear Channel, Verizon, Van Wagner, JC Decaux, and NBC-Universal were actively bidding for this contract.

The announcement was made on September 21 by New York City Hall with the following release:

"The New York City Department of Transportation today announced that it will begin contract negotiations with Cemusa, an outdoor advertising/street furniture company. Under the franchise agreement Cemusa will be responsible for the installation, maintenance and operation of street furniture for 20 years and the company will pay the City over one billion dollars in exchange for the right to sell advertising space on the structures.

Cemusa currently delivers a range of municipal services to

Miami, San Antonio and Boston as well as 110 cities throughout Europe and North and South America. At no charge to the City, Cemusa will provide approximately 3,300 new bus stop shelters, 330 new newsstands and up to 20 automatic public toilets. Cemusa expects to create over 100 new jobs in New York City and has committed to using local vendors for the fabrication and installation of the

► **THIS CONTRACT REPRESENTS A GREAT STEP** forward in Cemusa's expansion drive in the United States, where it already operates in Miami (Florida), Boston (Massachusetts), and San Antonio (Texas).

contract in New York



OPERATES IN 115 CITIES IN SPAIN, EUROPE, AND AMERICA

Since 1984, Cemusa has been operating in the city furniture and outdoor advertising segment. It currently manages the design, manufacturing, installation, and maintenance of over 105,000 city furniture elements in more than 115 cities in Spain, Europe and America.

Cemusa, the leading player in Spain in its segment, launched its diversification drive a decade ago, thanks to which it is now operating in 11 countries:

Spain: 72 locations nationwide, including the major capitals (Barcelona, Bilbao, Madrid, Malaga, Seville, Valencia, and Zaragoza). Over 51,000 elements installed.

Portugal: 20 cities and towns, including Lisbon. More than 9,500 elements.

Italy: Genoa, Parma, Bologna, and Fiumicino Airport (Rome). 5,000 elements.

United States: Miami (Florida), Boston (Massachusetts), and San Antonio (Texas). 11,500 elements.

Brazil: 7 cities, including Rio de Janeiro and Brasilia. 11,000 elements installed.

Mexico: 6 cities, including Mexico F.D. Mexico 13,200 elements in total.

Five Central American and Caribbean countries: Costa Rica, El Salvador, Guatemala, Panama, and the Dominican Republic. 6.600 elements.

SOME OF THE ELEMENTS INSTALLED BY CEMUSA IN OTHER U.S. CITIES: Right, bus shelters in San Antonio (Texas) and Boston (Massachusetts) and a solar-powered model for the streets of Miami (Florida). The "Pali" model bus shelter in Miami.

project. The franchise structures are designed by the world renowned architecture firm of Nicholas Grimshaw & Associates, the same firm that designed the Fulton Street Transit Center in Lower Manhattan. The new street furniture's distinctive design will enhance and enliven the streetscape while standing up to the rigors of sidewalk life in New York City.

The announcement comes after an intensive evaluation of the proposals by a selection committee made up of representatives from the New York City Departments of Transportation, City Planning, Consumer Affairs, Parks and Recreation, Design and Construction, and the New York City Economic Development Corporation. Each proposal included detailed technical plans, financial information and

scale models and drawings. The evaluation period lasted 10 months and included extensive interviews with each bidding company. The negotiations with Cemusa are the next step in the process, and while DOT anticipates discussions will go smoothly, failure to successfully negotiate may result in an invitation to negotiate to another proposer.

"This partnership for street furniture will provide New Yorkers with improved streetscapes and public services, while bringing in an enormous amount of revenue to the City," said DOT Commissioner Iris Weinshall. "Today's announcement represents a great achievement for our City, one that will add to the character and vitality of our streets for years to come." ■

FCC will build and manage two macro-desalination plants in Algeria

TURNOVER WILL REACH 1.17 BILLION EUROS

The Algerian Energy Company (AEC), the state-owned company, awarded the FCC and INIMA 50-50% consortium, a construction and 25-year management concession contract for two macro-desalination plants in Algeria. This project is expected to generate over 1.17 billion euros in revenues.

Investment for both projects, to be executed in a 20-month period, is 184 million euros. The management and investment recovery period will begin as soon as the project has been completed.

The first desalination plant was awarded on 18 October. It is located in Mostaganem region in Algeria, close to Oran, in an area bordering the Mediterranean. The

DESALINATION PLANT REFERENCES

To date, Aqualia has been involved in the construction of 12 desalination plants, all of which produce 28.3 Hm³ per year. The Company is currently responsible for operations of 12 desalination plants throughout Spain, including those in Ibiza, San Antonio (Ibiza), La Tordera (Barcelona), Denia (Alicante), and Cabo de Gata (Almeria). These desalination facilities produce a total of 23.78 Hm³ of drinking water per year.

► **INVESTMENT IN THESE two projects totals 184 million euros.**

second desalination plant was awarded on the 31st of that same month. This facility will be built in Cap Djinet, a city located near

Algiers.

Aqualia and SPA, two FCC subsidiaries specialising in wastewater treatment and desalination, and INIMA, an OHL subsidiary engaging in environmental management, were responsible for the design of this project. The most advanced technologies based on reverse osmosis desalination processes will be applied in this project.

Each of the desalination plants will have four treatment lines, each with a 35,000m³/day treatment capacity, producing a total of 100,000m³ of drinking water per day for a population of over 500,000.

These plants are part of a major project designed by the Algerian Government aimed at building several desalination plants over the next three years for the desalination of 1,050,000 m³ of water per day.

Several leading Spanish and multinational companies were involved in this tender process. ■

Aqualia's water management contract in Algeciras extended for another 25 years

The Algeciras (Cadiz) local administration and Aqualia reached an agreement to extend the comprehensive water management contract for another 25 years. Thanks to this concession, the FCC subsidiary's order book grows by 450 million euros.

Aqualia will pay the Algeciras City Hall a 7.9 million euro fee and will invest 2.4 million in projects aimed at improving the water supply and sewage network in this city with a population of nearly 110,000. Aqualia's client portfolio totals 45,000. The Company supplies these customers 8.5 million cubic metres of water per year.



► **450 million euros in turnover.**

One of the highlights of the agreement reached by the local administration and Aqualia, envisages a freeze on water services billings until 2008. This means that the population of

Algeciras will not be subject to any price increases until 2008, after which, any increases will be referenced against the annual CPI rise, all of which represents 15% savings in water bills up to the year 2008.

Aqualia, with a 1,500 workforce in this region, has a widespread presence in Andalucía, covering over 100 cities and towns. In addition to Algeciras, the Company is in charge of comprehensive water management in Jaén, Almería, La Línea de la Concepción (Cadiz), Sanlúcar de Barrameda (Cadiz), Puente Genil (Cordoba), Punta Umbría (Huelva), Ronda (Malaga), Chipiona (Cadiz), and Rota (Cadiz). ■



► **THANKS TO THIS INVESTMENT,** the company becomes the first operator in the Canary Island water market.



FCC buys the water utility Entemanser

THE TRANSACTION REPRESENTS AN INVESTMENT OF 75 MILLION EUROS

The FCC Group, through its affiliate Aqualia, has acquired a controlling stake in Entemanser, S.A., a Tenerife-based company, thereby becoming the leading private operator in the water market in the Canary Islands. This acquisition involved an investment of 75 million euros.

Prior to this transaction, at the beginning of this year, the Group had acquired GANSA, a company operating in the north of Gran Canary Island. Furthermore, the Company recently won a management contract put out to tender by the Gran Canary City Council for 14 wastewater treatment plants.

Entemanser, a company specialising in the comprehensive management of the entire water cycle, develops its activities in the southern part of the island of Tenerife. The Company is also in charge of managing the construction and operations contract for four desalination plants in the Galapagos Islands, awarded in a bidding contest organised by the Government of Ecuador, and supervised by the



► **FCC ACQUIRED GANSA, a** company operating in northern Gran Canary Island, at the beginning of this year.

Darwin Ecological Foundation. Entemanser supplies water to a population of over 230,000. Each year, it supplies 143 million m³ of water, and with business volume reaching 30 million euros annually. The collaboration agreement with the company's former owners, Francisco and Miguel Galindo, contemplates that, besides remaining as partners, they will continue to actively participate in the company's management,

thereby providing continuity to Entemanser's positioning in the Canary Islands and a clear opportunity to grow by jointly engaging in several projects in the future. The water management market in the Canary Islands has strong momentum, recording annual growth of over 10%.

► **Strong projection**

Aqualia operates in more than 750 municipalities throughout Spain, with business volume of nearly 550 million euros, a 5.5 billion euro order book backlog, and 15% annual growth.

This investment is a clear reflection of FCC's corporate strategy, focused on investments in Spain and abroad in the three core sectors in which it operates: construction, services, and cement. Its strong international projection was recently reaffirmed when the Company entered into an agreement for a 25-year wastewater treatment concession in Benghu, in the Anhui province of the Popular Republic of China. FCC plans to invest 49 million euros in this project, with estimated turnover of roughly 500 million euros. ■

Pamplona's City Hall awards FCC a street clean

FCC once again won the city's street cleaning management contract. Local authorities first awarded this contract to FCC in 1989, and in 1997, the Company's proposal was selected for the street cleaning contract put out to tender that year.

The Pamplona City Hall awarded FCC a seven-year street cleaning services contract, which could be extended for an additional three years. The total amount of this contract is over 53 million euros. Of the proposals submitted for this contract put out to tender by the city's local administration, FCC's bid received the highest rating, with two other construction and services groups participating in the bidding process. FCC has a workforce of 150 employees and will invest nearly 2,700,000 euros in new machinery



and equipment to provide this service.

► Since 1989

The Company plans to introduce the latest in technology to improve this street cleaning service. Among the new technological systems and equipment, FCC will provide GPS-guided vehicles that make it possible to have real time

ning contract



PRESENCE IN NAVARRE

FCC is also involved in street cleaning services in the Navarre municipalities of Tudela, Noáin, Ansoain, Estella, Sangüesa, Azagra, Falces, Marcilla, Peralta, Galar, Murchante, Cascante, Ablitas, Monteagudo, Barillas, Valtierra, Castejón, Arguedas, Fustiñana, Cabanillas, Fontellas, Ribaforada, and Buñuel.

It provides services to a population of 300,000 in the Navarre Autonomous Region.

► **THE FCC GROUP IS THE LEADER IN SPAIN** in urban sanitation services and one of the major operators in Latin America.

STREET CLEANING BRIGADES AND SHIFTS

- 2 Cleaning brigade using lightweight vehicles.
- 6 Combined street washing service shifts.
- 2 Mechanic street washing shifts.
- 15 Mechanical sweeping shifts
- 8 Sidewalk mechanical washing shifts.
- 1 Manual washing shift.
- 8 Shifts for cleaning pedestrian areas and disinfections of "black points" using lightweight vehicles.
- 1 Sidewalk, washing and stripping shift.
- 1 Equipment for cleaning grating.
- 3 Vertical cleaning equipment.
- 2 Brigades for trash bin maintenance.
- 1 Brigade for fountain maintenance.
- 46 Manual sweeping operators.

information on each of the vehicle's positioning, its course, and speed, as well as reproduce the route of each of these vehicles. In December 1989, FCC entered into the first agreement with the Pamplona City Hall. This original contract was for a 7-year period. Later on, in 1996, it won a new street cleaning contract for the capital of Navarre. During the San Fermín fair in July

of each year, FCC provides specific cleaning services, with an extraordinary deployment of human and mechanical resources, increasing the services it provides to the city twofold. The service is adapted each year to meet new requirements stemming from this festivity, with the Company incorporating new work methods to enhance the quality of this service, extending special cleaning

services to other districts in Pamplona. In 2004, FCC's turnover in waste collection and treatment and street cleaning totalled 1.25 billion euros. The Company provides services to 24.5 million people in Spain living in 3,299 municipalities. Each year, it collects 7.5 million tons of waste and treats 6.5 million tons of this material. ■

Flightcare begins operations in Liege Airport (Belgium)



Flightcare, the FCC subsidiary specialised in airport boarding, passenger, and cargo services, and the multinational Transporte Urgente TNT, entered into a cooperation agreement pursuant to which Flightcare will provide handling services in passenger aircraft at Liege Airport (Belgium). This cooperation agreement aims to meet two objectives: cost savings, and adapting to the demands of passengers who want to reduce the time spent at the airport for incoming and departing flights. This will be the first time that airline companies at this airport will be able to choose a service provider that can meet both their handling requirements, as well as passengers' check-in requirements.

► **Leading handling agent**

Thanks to this agreement, Flightcare will widen its operations networks in the two major Belgian airports where the company currently operates: Brussels and Ostend. Through its subsidiary BGS, Flightcare has strengthened its positioning in Belgium as the first

handling agent in Brussels after extending its operator licence last March for an additional seven years. At the beginning of the year, the FCC subsidiary won the handling contract for the Ostend-Bruges International Airport. The contract, also a 7-year concession, involves handling services on the ground, as the second boarding, passenger, and cargo operator. Estimated turnover in this country

FLIGHTCARE WILL provide passenger flight handling services at this Belgian airport.

over the next seven years is nearly 800 million euros. In Spain, Flightcare provides airport services in Barcelona, Bilbao, Fuerteventura, Lanzarote, Las Palmas, Malaga, Santiago de Compostela, Seville, and Valencia. In 2004, this FCC subsidiary provided services to over 120 airlines, 38 million passengers, and 175,000 flights, and handled more than 205,000 tons of cargo. ■

OPERATIONS IN BELGIUM

- Over the next seven years, Flightcare will be involved in handling services at the Ostend-Bruges International airport. The Company currently handles over 110,000 passengers and roughly 100,000 tons of cargo. Business volume totals 20 million euros.
- In 2002, Flightcare acquired the assets owned by Sabena, the Belgian flagship carrier. This acquisition included the handling license for Brussels Airport that expired on 31st October 2004.
- Last spring, FCC was awarded a seven-year contract for Brussels Airport thanks to its excellent performance in the previous two years. The leading companies in this sector worldwide participated in this tender process.
- By 2005, FCC had provided services to more than 40 million passengers and over 200,000 flights run by 130 airline companies.

► **THE COMPANY EXPECTS 800 MILLION euros in turnover in Belgium over the next seven years.**



THE PAPER AND CARDBOARD RECYCLING plant at Polígono de Industrias Especiales in Alcorcón (Madrid).



FCC Group enters the paper recycling business

COMPLEMENTS ITS INDUSTRIAL WASTE TREATMENT ACTIVITY

FCC acquired Grupo Hernández Cerrajero-Marepa, a company engaging in paper and cardboard recycling (recycling, classification, and treatment). The Group will be treating waste material generated by industry as well as that coming from community selective collection services. Investment for this acquisition totalled 50.1 million euros.

Thanks to this transaction, the FCC Group will become involved in paper recycling, thereby complementing the activities of its Industrial Waste Treatment Division, with estimated total turnover of 145 million euros. Hernández Cerrajero-Marepa handles over 300,000 Mt per year,

one of the leading operators in Spain, with estimated sales for next year of 32 million euros. This Group comprises six companies:

- Manipulación y Recuperación, S.A.
- Papeles Hernández e hijos, S.A.
- Industrias Sangar, S.A.
- Papeles Vela, S.A.
- Recuperaciones Madrileñas del Papel, S.A.
- Recuperados Extremeños, S.A.

It has two treatment plants in Madrid and one in each of the following regions: Barcelona, Toledo, Valladolid, Avila, Cáceres, and Asturias. This new activity will be integrated in Ámbito, the FCC Group brand specialising in handling industrial

waste (normal and hazardous). This acquisition strengthens Aqualia's positioning in this sector.

► 29 Companies

Ámbito currently comprises 29 companies involved in managing eight industrial waste dumping sites, 14 transfer centres, 15 treatment plants, and three depots for industrial cleaning trucks. Over 2004, these companies managed 910,000 Mt of waste and treated over 420,000 m³ of contaminated soil.

► International expansion

FCC also launched its international expansion in its industrial waste activity. Last June, the Government of Portugal awarded Ámbito the first licence for the installation and operation of a Comprehensive Hazardous Waste Recycling, Recovery, and Disposal Plant. These facilities will be located in Chamusca (the Ribatejo region). It will have a 25-year useful life and total turnover will reach 200 million euros.

As the first industrial waste treatment plant built in Portugal, this facility will make it possible to resolve the problem involved in the correct treatment of the hazardous industrial waste produced in this country. ■



THE COUNCILLOR FOR THE ENVIRONMENT, TERRITORIAL ORGANIZATION AND HOUSING of the Government of Navarre, José Andrés Burguete, inaugurated the Seminar on Environmental Communication.



Cementos Portland Valderrivas improves the environmental quality of its Olazagutía (Navarre) facilities

Last October, the Councillor for the Environment, Territorial Organization and Housing of the Navarre Government, José Andrés Burguete, inaugurated the Cementos Portland Valderrivas's first Seminar on Environmental Communication. In his opening speech, the Councillor highlighted the initiatives developed by Cementos Portland Valderrivas in improving and caring for the environment at its Navarre facilities, which he mentioned as an example for the industry for its initiative and concern for taking care of the surroundings and for sustainable development. The aim of this seminar was to serve as a meeting point for people and associations in Navarre interested in the environmental management efforts at the factory. Sixty representatives from local and regional institutions,

community and trade union organizations, and representatives from the sector attended this seminar and discussed their experiences in this area. The seminar was in keeping with the development of the Voluntary Agreement subscribed by the Company and the Local Administration for the prevention and control of pollution in order to minimise the environmental impact of cement production activities. As a result of this agreement, Cementos Portland

► **THE COMPANY BACKS ITS Voluntary Pollution Prevention Agreement executed with the Navarre regional government by investing 10 million euros until 2006.**

Valderrivas will spend over 10 million euros between 2004 and 2006 in improving the environmental quality of its Olazagutía plant

► **23 million euros invested**

To date, 5.1 million euros have been spent in the Navarre, in addition to the 18 million euros invested over the last ten years in environmental upgrades. The main investments have spent on:

- Replacing the electro-filters with two last generation sleeve filters, considered the most efficient technology for gas filtering.
- Minimising the visual impact of the factory with landscaping and green areas.
- Creating a control and monitoring centre for environmental parameters, equipped with the most advanced technology, such as equipment for analysing particles and gases.



OPEN DOOR SEMINAR

Cementos Portland Valderrivas complemented the seminar on the environment, a biannual initiative, with an Open Door Seminar held at the Olazagutía plant on 8th October. The purpose of this event was to enable members of the community to visit the plant and confirm that environmental impact has been minimised, that the factory serves as an example of sustainable development for the industry, and that the company is firmly committed to the environment and, to this end, is constantly making investments in environmental upgrades.

This is the first initiative of its kind in Olazagutía, enabling hundreds of people to visit the interior of the facilities.



The developed environmental management systems and Cementos Portland Valderrivas' commitment to sustainable development have been rewarded with the UNE-EN-ISO 14.001 certification for the Olazagutía plant. ■

FIRST CEMENT GROUP

The FCC Group is the main shareholder of Cementos Portland Valderrivas, which has its headquarters in Pamplona and is the leading Spanish cement company. Esther Koplowitz is the cement company's vice-president.

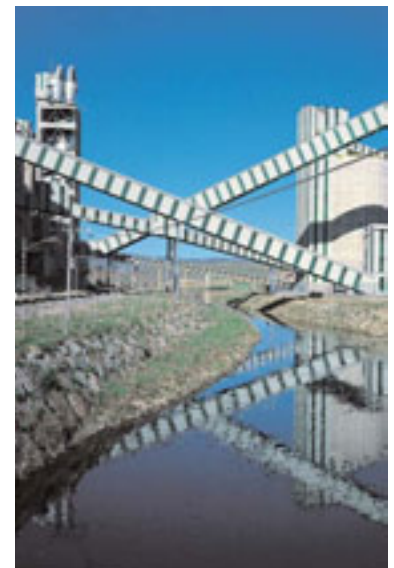
FCC acquires an 8.06% stake in Cementos Portland Valderrivas from Iberdrola

Iberdrola and FCC agreed this transaction by which FCC acquires 8.06% of Cementos Portland Valderrivas share capital from Iberdrola for 150.308,604 euros. Following this acquisition, FCC increases its stake in Cementos Portland Valderrivas, the leading Spanish cement company, to 66.82%.

The cement group operates nine cement plants throughout Spain: El Alto (Madrid), Olazagutía (Navarre), Hontoria (Palencia), Alcalá de Guadaíra (Seville), Mataporquera (Cantabria), and Lemona (Vizcaya).

Cementos Portland Valderrivas has three factories in the United States, in Maine, Pennsylvania, and South Carolina. The company also has a presence in the entire industrial cycle of this sector, with 130 concrete plants, 46 quarries, 8 dry mortar plants, two industrial waste treatment plants, and eight sea terminals.

In 2004, the cement company sold 10.2 million tons of cement. Its turnover in 2004 reached 881 million euros, and net income stood at 116.1 million euros. ■





The addition to the Spanish Olympic Committee Headquarters is inaugurated

The enlargement project of the Spanish Olympic Committee (SOC) headquarter pavilion was inaugurated on 20th September. The FCC-built addition will be named the Alfredo Goyeneche Pavilion. The SOC Chairman, José María Echevarría, the president of the Madrid Autonomous Region, Esperanza Aguirre, and Manuel Coba, the deputy mayor of Madrid were present in this event together with several SOC members, chairmen of Olympic federations, and personalities from the world of sports. The current SOC headquarter, with 3,000 m² of floor space, is divided into a basement and a ground floor.

The building houses an auditorium with a capacity for 300 people, two multi-purpose halls for courses and other events, a gymnasium, and a large parking facility. The architect of this project is Rafael de La Hoz, who also designed the current headquarters built by FCC 10 years ago during the presidency of Carlos Ferrer Salat. ■

TECHNICAL TEAM

HEAD OF DEPARTMENT:
Luis Fernando Paniagua Molina

HEAD OF PROJECT:
Julio Nicolás Romero

PROJECT ASSISTANT:
Óscar Barrios

FCC will build the Madrid-Valencia sub-stretch of the high-speed railway line

The Ministry of Development has awarded FCC, in a joint venture with another company, a contract for the construction of the Siete Aguas-Buñol subsection, located in the province of Valencia, of the Madrid-Castilla La Mancha-Valencia Community-Region of Murcia high-speed train. The contract, valued at 322.7 million euros, will take 34 months to complete.

The subsection will be 11.2 km long and will include the construction of three tunnels, one measuring 7.252 metres long running through the La Cabrera mountains which will be executed with a double-tube section; and the Buñol and Siete Aguas tunnels measuring 1.858 m and 224 m long, respectively. Two viaducts will also be built, one over the Hondo de Mussegar ravine measuring 224 m long and another over the Rambla del Gallo riverbed measuring 50 m long.

The Buñol tunnel will be built using conventional and mechanical methods. Two open-shield tunnelling machines, each with a 9.84 metre diameter, will be used for excavation work at La Cabrera Tunnel.

The contract contemplates international-width double rails plus the construction of structures, the replacement of affected services and rights of way, the construction of transversal connections to ensure the permeability of the line and drainage work. ■

► **AWARDED CONTRACT**
is worth
322.7 million euros.

The Toro-Zamora stretch of the Duero Highway opened for traffic

The Ministry of Development inaugurated the Toro-Zamora stretch of the A-11 Duero Highway on the 2nd of September. Magdalena Álvarez, the Minister of Development and the President of Castilla-León, Juan Vicente Herrera presided over the inauguration ceremony. The budget for this project totalled 73.1 million euros. This 32.3 km-long highway section directly links Madrid and Zamora.

► Four viaducts

The project calls for the construction of four viaducts. One of these is the 508 metre-



TECHNICAL TEAM

HEAD OF DEPARTMENT:

Fernando Flórez Tejado

HEAD OF PROJECT:

Jaime Freyre de Andrade Calonge

PRODUCTION SUPERVISORS

Miguel Ángel Vicente Ramos/
Enrique Nuño Cabiedas

HEAD OF TOPOGRAPHY:

Alfredo Escobar Potenciano

SUPERVISORS:

Alejandro Fernández Álvarez/
Miguel Juan Martín



TOP, THE 508 METRE LONG ADALIA VIADUCT. Below, Magdalena Álvarez, the Minister of Development, at the inauguration ceremony.

long viaduct over the Adalia stream, with 50 meter spans built with FCC Construcción's self-propelling flasework. It also includes twenty-four overpasses for roads, an underpass over the railway line, and eleven underpasses for roads.

There are two intersections: the diamond-shaped Fresno de Ribera intersection with an overpass over the highway and rotundas at each side, and the clover-type Coreses intersection. ■

Enlargement of the Hospital Universitario Virgen de la Arrixaca, in Murcia

The Department of Health of the Murcia Autonomous Region awarded FCC a contract of 39.4 million euros for revamping and enlarging the new Children's and Maternity Building at the Hospital Universitario Virgen de La Arrixaca. The hospital will have a 50,000 m² of floor space, of which 30,000 will be

new construction and 20,000 will involve the revamping of the current hospital. The work will also include adapting the heating installations and upgrading the facilities, as well as 11,000 m² of urbanisation. The hospital's four floors are divided into a ground floor and two basement levels. The facilities

include separate paediatrics and gynaecology hospitalisation and emergency wards as well as a neonatal and paediatrics intensive care unit, plus radiology and surgical areas.

The maternity area will have 193 beds, which could be expanded to 235 beds at a future date, and 14 separate delivery rooms. ■



New building in the Gavà (Barcelona) complex

FCC was in charge of the construction of a new building, which will be used for training, simulation, and contingencies. The building is within the same complex as the Barcelona Air Traffic Control Centre, also built by FCC, in the municipal district of Gavà. Reinforced concrete was used for the building's structure, with several lightweight plates of different widths placed over the porticos executed with pillars and beams. The company was also responsible for clearing and excavating the plot into the trenches and shafts used for the building's foundation.

The building's walls are built of solid brick covered with aluminium plates that are joined to the wall by means of aluminium profiles and staples. ■

TECHNICAL TEAM

HEAD OF DEPARTMENT:

Jaume Vilà Casals

HEAD OF PROJECT:

Miguel Ángel Herrero Matesanz

PROJECT ASSISTANT:

Mario Fernández Sánchez

SUPERVISOR:

Antonio Herrera Hernández

ADMINISTRATION:

Salvador Gil Alvadalejo

Start of the project for the first centre for victims of gender violence

The President of the Asturias Principality, Vicente Álvarez Areces, laid the first stone for the centre to be built in Gijón (Asturias) for the comprehensive treatment of women who are victims of gender violence.

Construction of this project, recently awarded to FCC Construcción, is expected to be completed in 16.5 months. These facilities will be built in a 5,474 square metres plot of land. It will consist of two buildings. One of these will be used for comprehensive treatment while



the other building will consist of protected housing units. It will be the first public comprehensive treatment centre in Spain for women who are victims of gender violence. ■

FCC builds Line



FCC is currently involved in the construction project for Line 9 of the Barcelona underground system, which includes the Bon Pastor – Can Zam subsection 4T as well as execution of the University Campus – Sagrera Meridiana tunnel as part of this project. This sub-section is 4,874 metres long, of which 4,293 metres were excavated using a tunnelling machine, and covers six subway stations; Can Peixauet, Santa Rosa, Fondo, Plaça de l'Església,

TECHNICAL TEAM

HEAD OF PROJECT:

Carlos Ema

MANAGERS:

Carlos de Frutos/

Kenneth Martínez

TWO YEARS' WORK

After working two years to drill through Santa Coloma de Gramenet from the north to the south end, the tunnelling machine arrived at the Besós riverbank, thereby completing the drilling work involved in building this tunnel. A mixed shielded tunnelling machine was used in the construction project.

9 of the Barcelona Metro system



Singuerlín, and Can Zam, all of them in the Santa Coloma de Gramenet municipal district. The depots, with a capacity for seven six-wagon trains, and four maintenance roads, are located in the vicinity of the Cam Zam metro station.

To be able to meet concrete demand at the work site, FCC installed a concrete batching and mixing plant, consisting of a mixer and a horizontal group with five aggregate discharge hoppers with a capacity of 3 m³/vibrated concrete cycle. The concrete plant also contains a specific facility for manufacturing the concrete plates covering the walls of the tunnels which are 13.3 km long.

In order to take advantage of excavation generated aggregates, FCC set up a crushing facility at a distance of 6.2 km from the Cam Zam station, the one that is closest to the work site and where these activities can be carried out. ■

MORE THAN 41 KILOMETRES AND 43 STATIONS

The future Line 9 will link the Barcelona Airport with Santa Coloma de Gramenet and Badalona. This project is divided into three sections: Zona Franca - Maria Cristina, Maria Cristina - Sagrera Meridiana, and Sagrera Meridiana - Gorg/Singuerlín. The underground line stretches over more than 41 km and will have 43 subway stations

TECHNOLOGICAL AND ENVIRONMENTAL INNOVATIONS

During project execution, FCC developed several technological innovations in the design of the tunnelling machine, which can also function in an open mode thanks to an anti-rulling system for compensating axle turns.

With respect to the technology of materials, several studies were carried out in collaboration with the Universidad Politécnica de Cataluña, for promoting the replacement of

concrete reinforced with corrugated steel with concrete reinforced with steel fibres, to apply this material in prefabricated sections.

One of the key environmental aspects was the recycling of a high percentage of materials obtained as a result of tunnelling excavation. This resulted in a sharp reduction of materials transported to the dumping site.

The highway to the bridge over the Panama Canal opens to traffic

The President of the Republic of Panama, Martín Torrijos Espinosa, jointly with the Minister of Public Works, Alberto Vallarino, and the Archbishop of Panama Monsignor Dimas Cedeño, inaugurated on 2nd September the "Design, construction, and Study of the environmental impact for the western gateway to the second bridge over the Panama Canal Project". Corporación M&S Internacional, an FCC Construcción affiliate, jointly with a Colombian company were responsible for the execution of the project related work.

This project involves the construction of a 9,964 metre-long road with four lanes, two each way, except for the section near the bridge that consists of six lanes, three each way. The road is designed for traffic of up to 110 km/hour.

Starting from the Chorrera-Arraiján intersection, the highway crosses the urban areas between Arraiján and Burunga and runs through the wet tropical forest in the former Panama Canal area of influence, terminating at the start of the second bridge over the canal. The project includes the removal of



TECHNICAL TEAM

MANAGER:

Gerardo Acosta

HEAD OF DEPARTMENT:

Antonio Mogro

terrain, concrete foundations, viaducts and intersections, signals, protective structures, and the design and construction of anti-environmental impact elements. The project is to be executed within 31 months with the total budget reaching 34.8 million euros. ■

► **THE NEW HIGHWAY is 9.9 km long and has two lanes in each direction.**

OTHER PANAMA CANAL PROJECTS

The Panama Canal Authority, the state agency in charge of operating and commercialising this infrastructure, awarded Corporación M&S Internacional, an FCC subsidiary, a contract for the Panama Canal construction project valued at 13 million euros.

The aim of this project is to improve visibility of maritime traffic. To achieve this goal, it will be necessary to move 4.75 cubic metres of terrain from the bank area known as Hodges, one of the narrowest spots on the canal stretching from the Centenario Bridge to the Miraflores Lock at five kilometres from Panama City.

The project will take 32 months to complete and will involve several controlled explosions, which increases the difficulty of this project since this must be executed without interrupting the passage of vessels through the canal.



FCC awarded gold mine contract in Nicaragua

Corporación M&S Internacional, a FCC Construcción Group company, entered into a five-year agreement for the extraction and transport of materials from the Cerro Mojón open-cast gold mine in the La Libertad, Chontales mining district in Nicaragua. The contract includes loading, transporting, and creating

dumping sites as well as the removal of lixiviated materials. The company will assign a 350-workforce to perform these tasks. Part of the project includes a treatment plant with a capacity for processing 150,000 tons of dry minerals per month by means of the lixiviation method in 50 x 50 m² mounds and a two-phase

crushing system. Estimated monthly volume of terrain movement is 900,000 tons. With 61,150 kg of gold reserves, operations will last approximately seven years. DESMINIC, Empresa de Desarrollo Minero Nicaragüense, owned by RNC, the multinational Canadian mining company, holds the mining rights for this operation. ■

Start of the National 12 road construction project in Guatemala

On 7th September, the President of the Republic of Guatemala, Óscar Berger, the Minister of Communications, Infrastructure, and Housing, Eduardo Castillo, and several national and local authorities came together in Ixchiguán, a town in the San Marcos province. The ceremony marked the start of the National 12 road construction project involving the San Sebastián-Tejutla, San Sebastián-Tectitán stretch of this highway.

► **62.1 kilometres**
FCC Construcción was awarded this project, worth 76 million quetzales, partly funded by the World Bank. The road will link several municipalities in the Altiplano Marquense with the town of Huehuetenango and will serve as the future connection to Mexico's southeastern region. The project involves upgrading 62.1 km of very rough terrain road at one of the highest altitudes in Central America. The construction of a bridge over the Cotán River is also contemplated in this project. ■



The Minister of Agriculture inaugurates the Alto Vinalopó (Alicante) irrigation project

FCC, commissioned by Sociedad Estatal de Infraestructuras Agrarias Seiasa de la Meseta Sur, S.A., completed the project aimed at upgrading the Comunidad General de Usuarios del Alto Vinalopó irrigation network. The final amount of the contract was 16.8 million euros. Part of this project, inaugurated by the Minister of Agriculture, Fisheries, and Food, Elena Espinosa, included upgrading of the automated irrigation and pumping system, the construction of deposits, general pipelines, and hydraulic improvements. The project transformed 11,000 hectares using traditional irrigation systems to drip irrigation, thereby enabling 7,000 members of

irrigation union groups to increase their production. Fourteen regulating deposits were built with a capacity of 2.54 cubic hectometres of water, as well as an irrigation and distribution network for filtered water stretching over more than 187 kilometres. The network has an automated system regulating the sprinkler system's opening and closing mechanisms, the volume of consumed water, the pump and valves mechanisms, pressure, and the water levels in the deposits. The Control and Management Centre, with 1,370 square meters of floor space, is located in a 4,230 m² plot of land. Operators in this building will control irrigation operations for the entire community of users. ■

Development of IT project for air traffic control

Espelsa, an FCC Construcción subsidiary, will be in charge of developing the "TRES" (Trajectory, Reconstruction, and Evaluation Suite) project for Eurocontrol (European Organisation for the Safety of Air Navigation). The project consists of a complex information system for

evaluating the performance of surveillance and air-traffic control systems. A statistical analysis of air traffic will make it possible to graphically check the performance of surveillance systems against their nominal parameters. It will also enable the periodical monitoring of the performance of several Air Traffic

Control Centres in Europe, investigate incidences, and improve the development of air-traffic control systems that could be implemented at a future date. This is the first time that Espelsa develops a project for the air-traffic control segment, a very attractive and constantly expanding market. ■

THE PROJECT WILL BENEFIT 4,210 irrigation group members and will improve 9,017 hectares of irrigation systems.



FCC will upgrade the irrigation systems in the Najerilla basin (La Rioja)

The Minister of Agriculture, Fisheries, and Food, Elena Espinosa, laid the first stone for the revamping project affecting the

irrigation systems of the Irrigation Union Group of the 3rd Sector, Section III of the Najerilla Left Bank Canal. The project, awarded to an FCC

Construcción and Aqualia joint venture, will be executed in 19 months.

The planned works will benefit 4,210 farmers in the region and will improve 9,017 hectares of irrigation systems distributed over the municipal districts in the Rioja Autonomous Region of Bañares, Baños de Rioja, Briones, Casalarreina, Castañares de Rioja, Cimadón, Gimileo, Haro, Ollauri, Rodezno, San Torcuato, Tirgo, Villalobar de Rioja, and Zarratón. Valued at 44.5 million euros, the project contemplates the construction of three separate points where water can be drawn off on the left bank, with the respective regulation deposits in La Cantera, La Zaballa, and La Mesa; filtering and pumping stations, a main distribution network stretching over 239.9 kilometres to supply 840 hydrants, and remote-controlled irrigation automation. All these measures will imply significant savings in water consumption, greater irrigation efficiency, and increased production. ■

High-risk campaign for the prevention of fires in Madrid's mountain range

Matinsa, an FCC Group subsidiary, has been providing forest fire prevention and extinguishing services in the Madrid Autonomous Region since 1998. During the high risk campaign launched this year, lasting from 1st June to 30th September, in the northern and eastern part of the mountainous regions of Madrid, 84 fires were recorded, most of which resulted in small fires thanks to the actions undertaken by Matinsa. Four forest specialists and forestry engineers, four brigade engineers, and 234 operators were involved in providing these services. The material resources used included a double-turbine helicopter with a 1,500-litre water

deposit, as well as several fast-response vehicles, and forest water pumps. Thanks to the helicopter-borne brigade introduced last year, the total amount of hectares affected by fires in 2005 totalled 228 in comparison with 1,020 hectares last year. This brigade is immediately deployed whenever a fire is detected within an approximate 30 km radius. Its mission is to be the first at the scene of the fire to begin work on extinguishing and



► **INTRODUCTION OF THE helicopter-borne brigade has drastically reduced the size of the areas ravished by fires.**

controlling the blazes. During this period, the brigade was involved in 83 incidents. Ninety-five hours of flying time were recorded, and it took the brigade an average of 16 minutes from the time the alarm went off, until it was actually on the ground extinguishing the fires. ■

FCC has built the Ciudad Deportiva del Real Madrid in Parque de Valdebebas

FCC Construcción began work on the First Phase of the Real Madrid Sports complex in May of last year. This complex occupies a 120-hectare area in the Parque de Valdebebas district. This phase of the project involved the execution of levelled areas, roads, and the general infrastructures within the complex

light flows throughout 100% of all the indoor areas. This sports complex can accommodate 6,000 spectators sitting down, and 5,000 standing up. The project also involves the ten soccer fields and a jogging area surrounding the training fields. A building with 1,800 m² of floor space for installations will house the power generator and air-



FCC MOVED 900,000 M³ OF TERRAIN, projected 940 m of service galleries, 53,000 m of pipes, and 225,000 m of cabling.



that provide services to the sports fields and the multi-purpose buildings within the facilities. Regarding the general infrastructures, FCC executed all the work involving service galleries, water supply and sanitation networks, pipes for telecommunications, and fire protection systems. The sports complex spreads over a 225,000 m² area: 120,000 for sports activities, 60,000 for gardens, 25,000 for locker rooms, the gym, classrooms, conference halls, offices, a hydrotherapy treatment area, a medical centre, and a press room. The remaining area will be used for basic services. Natural

TECHNICAL TEAM

HEAD OF DEPARTMENT (JOINT VENTURE MANAGER):

José Luis Rivera

HEAD OF PROJECT:

Arturo González/José Ruiz

PRODUCTION SUPERVISORS:

Carlos Casado/ José Luis Fernández

SUPERVISOR:

Santiago Díaz

conditioning equipment, a water deposit and wastewater treatment facilities, as well as other services. 60% of hot water will be produced thanks to solar energy, and wastewater will be treated and used for the water sprinklers in the



sports fields and gardens. Two roads were built for accessing the complex: on the south side linking up with the M-11, and on the west side, connecting with the residential Cárcava area in the Hortaleza district. ■

FCC Construcción holds its Annual Meeting

On 19th October, FCC Construcción held its annual meeting in Madrid, with the presence of more than 140 company executives. The event was presided by Rafael Montes, FCC Group's CEO. The General Manager of Human Resources, Antonio Pérez Colmenero, FCC Construcción Chairman, José Mayor Oreja, and Francisco García Martín, the General Manager of FCC Construcción also attended the meeting.

In his opening speech, José Mayor Oreja described the milestones that augur a new and promising business scenario for the company following the incorporation of two B-1998 partners, the appointment of Rafael Montes as the CEO of the FCC Group, and the latter's presentation of the new Strategic Plan. He then mentioned the positive performance of all FCC Construcción indicators, its positioning within the Group and the construction sector in general, and publicly thanks the



LEFT TO RIGHT: FRANCISCO GARCÍA MARTÍN, CEO of FCC Construcción; Antonio Pérez Colmenero, General Manager of FCC Group's Human Resources Department; Rafael Montes, FCC Group's CEO; and, José Mayor Oreja Chairman of FCC Construcción.

Manager of Human Resources, Antonio Pérez Colmenero for his constant support to the organization.

Francisco García Martín discussed in detail the excellent financial data for 2004 and for the current year as at September, its indicators, and plans for the future. The Deputy-Managers Alejandro Tuya, José Ordóñez, and Santiago Ruiz, described the strategy implemented in international markets and the company's diversification. In his closing speech, Rafael Montes, congratulated everyone attending the meeting for the Company's good results, encouraging them to continue along the same path of corporate excellence and congratulating them on a job well done and the fast-response capabilities which had contributed to making FCC Construcción a reference in its sector. ■

CEMUSA participates in the most important Public Transport Fair in the U.S.

CEMUSA participated at the Annual

APTA Fair (the American Public Transport Association) held in Dallas, Texas, at the end of September.

This is one of the most important fairs in this sector, bringing together professionals for the public transport sector in the United States and the organizations responsible for most of the contracts put out to tender for city furniture in the country. The aim of the fair is to display and discuss the latest market solutions for the public transport segment.

CEMUSA set up one of the most attractive stands at the fair, displaying all the new city furniture designs and information on its widespread global presence. ■



The World's Veteran Cycling Champion

The cyclist from Murcia, member of Aqualia's Los Alcázares (Murcia) team, José David Gómez, Spain's current masters-30 champion, won the world championship in this category at the world games held in the Austrian Tyrol region. The cyclist also won the gold medal in the master 30-34 category at the European Championship event held in Palma de Mallorca. ■