

# ENTERTAINMENT ENGINEERING

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Sentosa Cranes





McLaren Engineering Group  
Ph. 1-800-420-6401

49  
STATES  
LICENSED

20k+  
PROJECTS  
COMPLETED

45  
YEARS OF  
APPLIED INGENUITY

11  
OFFICES  
WORLDWIDE



## About Us

McLaren Engineering Group is a leading full-service engineering firm renowned for its trusted, high quality, and innovative approach to solving complex challenges. With industry experts in multiple technical disciplines, our team has provided customized solutions for over 20,000 projects through consultation, design, inspection, and construction management. With over four decades of experience, a staff of 200+, and 11 offices worldwide, McLaren addresses every project's specific needs with technical excellence and creative innovation.



**WILLIAM B. GORLIN, PE, SE**  
Vice President – Entertainment

[BGorlin@mgmclaren.com](mailto:BGorlin@mgmclaren.com)

## Core Technical Divisions

STRUCTURAL | CIVIL + SITE | MARINE + COASTAL | BRIDGE, HIGHWAY + RAIL  
ENTERTAINMENT | GEOTECHNICAL | FACADE + BUILDING ENVELOPE  
CONSTRUCTION ENGINEERING | FORENSICS | SURVEY + MAPPING





# ENTERTAINMENT ENGINEERING

With a reputation for visionary entertainment engineering and design, McLaren offers a unique blend of imaginative artistry and cutting-edge technical capabilities. For over 40 years, our firm has been leading the entertainment industry with expert structural engineers, mechanical engineers and entertainment specialists.

We have helped create some of the top productions, events, concerts, displays, staging and entertainment facilities worldwide. Working with the biggest names in the business, our iconic work has revolutionized the audience experience with never-before-seen feats of engineering.

## LIVE ENTERTAINMENT

ENTERTAINMENT FACILITY  
STRUCTURAL ENGINEERING

RIGGING, STAGING & SHOW  
ACTION MACHINERY

ARCHITECTURAL THEMING

THEME PARK ENGINEERING

EXHIBITS, DISPLAYS +  
SIGNAGE

CONCERT TOUR STAGING +  
RIGGING

TEMPORARY + POP-UP LIVE EVENT  
STRUCTURES

THEATRICAL PRODUCTION  
ENGINEERING

TELEVISION + FILM PRODUCTION  
SUPPORT

PERFORMER FLYING SYSTEMS +  
EQUIPMENT DESIGN

# LIVE ENTERTAINMENT ENGINEERING

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McLaren is behind some of the most epic concert stages, Broadway shows, aerial performances and pop-up events. Our live entertainment engineering is best known for never-before-seen productions that utilize innovative staging, unique mechanized effects, and the design of mind-blowing, custom structures. As a result, audience experience around the globe has soared to new heights.





# APPLIED INGENUITY



U2 STAGE TOUR



BATMAN LIVE



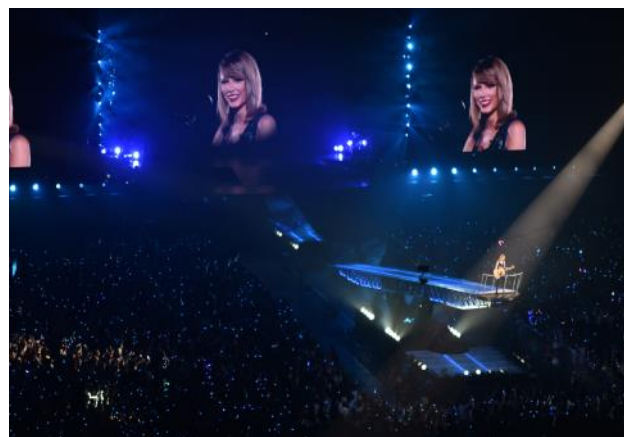
CIRQUE DU SOLEIL LA NOUBA



CORNING MUSEUM GLASS BARGE



HADESTOWN BROADWAY



TAYLOR SWIFT 1989 WORLD TOUR



STRUCTURAL ENGINEERING  
SERVICES

HISTORIC PRESERVATION

RENOVATIONS, ALTERATIONS +  
RETROFITS

EXHIBITS & DISPLAYS, SIGNAGE +  
RIGGING

CONSTRUCTION ENGINEERING  
SUPPORT

BUILDING ENVELOPE DESIGN

FALL PROTECTION SYSTEM DESIGN

# ENTERTAINMENT FACILITIES

McLaren's entertainment and structural engineers possess a distinct eye for aesthetics, user interface and a specialized understanding of the full building life-cycle. Our expert team is skilled in all aspects of structural design, engineering, inspection and construction engineering services. The hundreds of entertainment facilities in our portfolio include awe-inspiring public spaces, theaters, entertainment venues, museums, performing art centers, hotels, casinos and aquariums.





# APPLIED INGENUITY



NEW CULTURAL CENTER



WWE FIT OUT



BELASCO THEATRE RENOVATION



HAYDEN PLANETARIUM



LIVE! MARYLAND HOTEL & CASINO



MECU CONCERT PAVILLION

STAGE STRUCTURES DESIGN

MECHANICAL ENGINEERING

RIGGING SYSTEMS (AUTOMATED  
& MANUAL)

LIGHTING + AUDIO STRUCTURAL  
SUPPORT

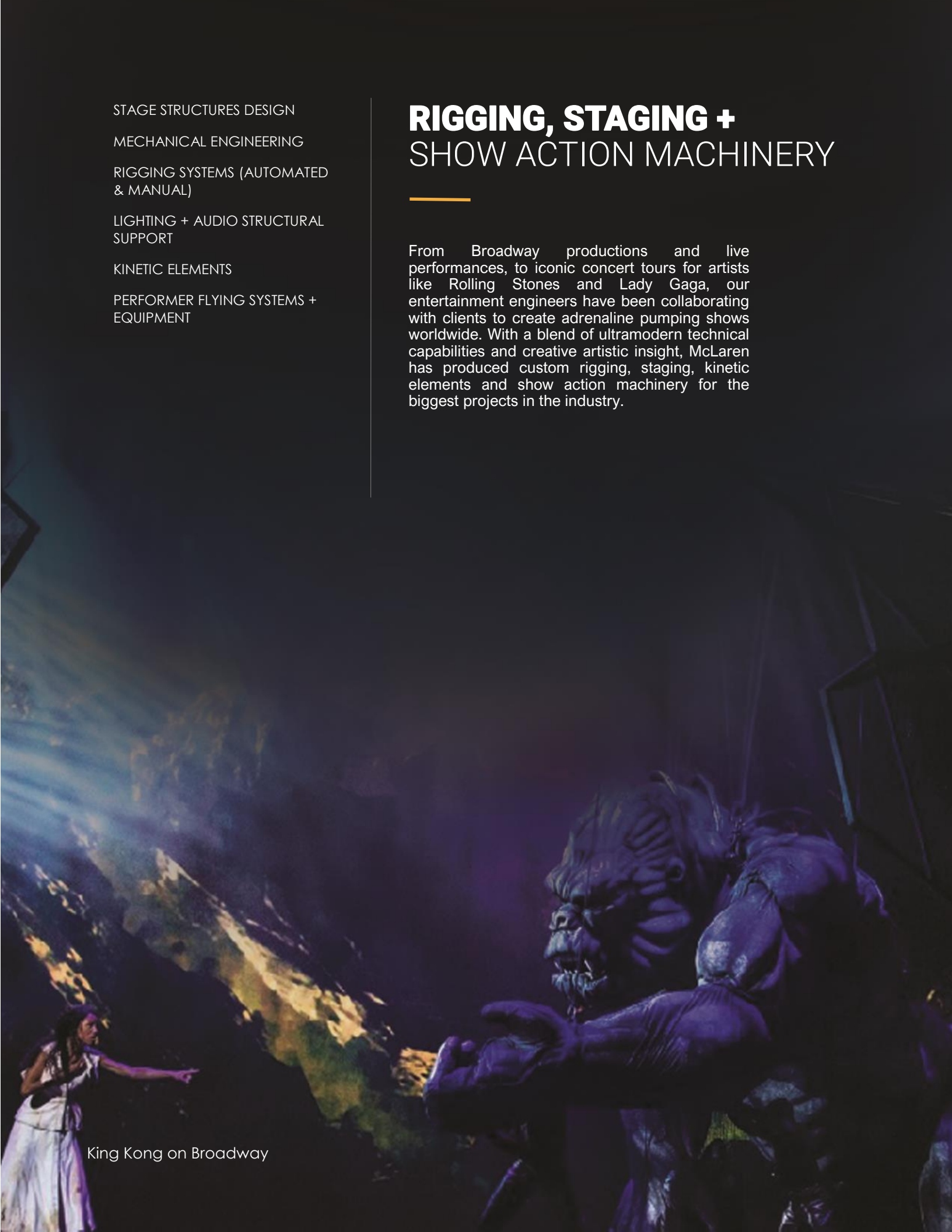
KINETIC ELEMENTS

PERFORMER FLYING SYSTEMS +  
EQUIPMENT

# RIGGING, STAGING + SHOW ACTION MACHINERY

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From Broadway productions and live performances, to iconic concert tours for artists like Rolling Stones and Lady Gaga, our entertainment engineers have been collaborating with clients to create adrenaline pumping shows worldwide. With a blend of ultramodern technical capabilities and creative artistic insight, McLaren has produced custom rigging, staging, kinetic elements and show action machinery for the biggest projects in the industry.



King Kong on Broadway



# APPLIED INGENUITY



ROLLING STONE CONCERT STAGES



WALLENDEN TIMES SQUARE TIGHTROPE ACT



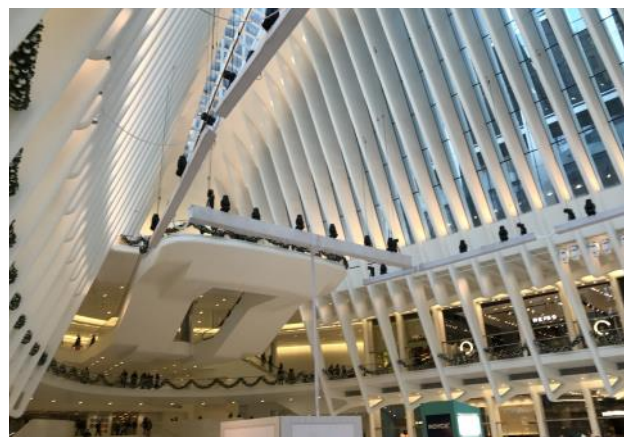
CIRQUE DU SOLEIL - KA



KINETIC CHANDELIER AT THE OMNIA  
NIGHTCLUB IN LAS VEGAS



AL HABTOOR CITY THEATRE - LA PERLE



WTC OCULUS RIGGING



SCULPTURES

INTERIOR + EXTERIOR  
ARCHITECTURAL THEMING

MOVING ARCHITECTURAL  
FEATURES

VIDEO SCREENS, BILLBOARDS +  
SIGNAGE

COMMERCIAL + HOSPITALITY  
FIT-OUTS

# ARCHITECTURAL THEMING

We are experts at creating interactive themed experiences to engage and dazzle audiences. As a result, McLaren has been turning larger-than-life concepts into stunning reality. The process of engineering in a creative space challenges our entertainment engineers and staff to push technical limits without compromising safety or aesthetics. We redefine boundaries to provide advanced functionality, service and design—all while honoring our clients' vision.



Wynn Cotai Dragon Gondola



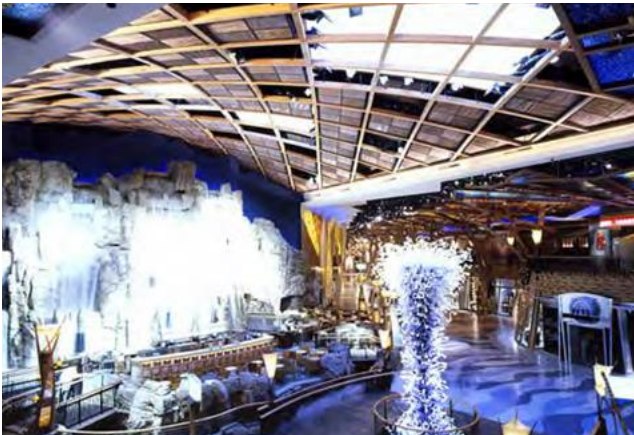
# APPLIED INGENUITY



TREEHOUSE INSIDE CRYSTALS LAS VEGAS



TOYS R US T-REX



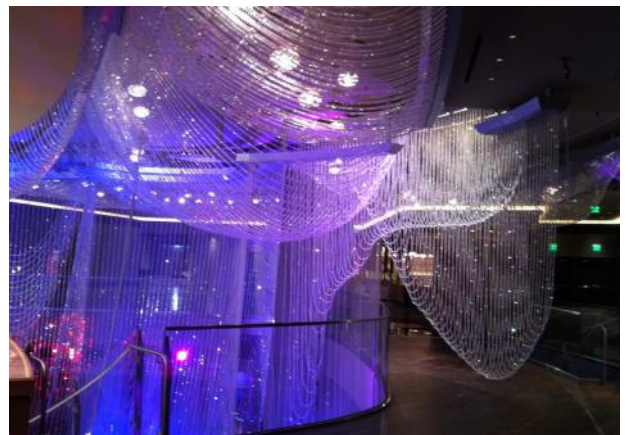
MOHEGAN SUN CASINO



SWITCH RESTAURANT IN ENCORE AT WYNN - LV



ARIZONA! A MAJESTIC OUTDOOR ART EXHIBIT



COSMOPOLITAN FEATURE BAR



THEMED ENVIRONMENT  
ENGINEERING

SHOW ACTION EQUIPMENT

ANIMATRONICS

QUEUING + LINE SYSTEMS

FACILITIES, MARINE + SITE  
ENGINEERING

MACHINERY DESIGN +  
ENGINEERING

AMUSEMENT RIDES + DEVICES

# THEME PARK ENGINEERING

Today's patrons demand a fully immersive theme parks with rides, attractions, concession stands and event spaces. From concept and design, to continuous support through fabrication and installation, our multi-disciplinary team meticulously engineers parks to magnify the guest experience. McLaren specializes in ride show engineering, theming engineering, show staging, facility engineering, technical design and mechanical engineering to create some of the world's most iconic attractions from Orlando to Macau.

Battery Park Sea Glass Carousel



# APPLIED INGENUITY



100+ CONFIDENTIAL THEME PARK PROJECTS



MARS DOME CABLE COASTER



BLUEMAN GROUP



VOODOO DONUT



THEME PARK FEASIBILITY STUDIES



OUTDOOR PLAZA CLOCK TOWER



VIDEO SIGNAGE + BILLBOARDS

VIDEO WALLS

MUSEUM, AQUARIUM + ZOO  
EXHIBITS & DISPLAYS

PUBLIC SPACE EXHIBITS + DISPLAYS

TEMPORARY EXHIBIT + DISPLAY  
STRUCTURES

MECHANIZED DISPLAYS

# EXHIBITS, DISPLAYS + SIGNAGE

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From fully immersive displays to LED signage and custom exhibits, we provide clients with cutting-edge design, entertainment engineering and expertise. Our team offers innovative solutions to engage audiences and viewers with superior project specific systems of every size, shape and complexity. McLaren specializes in modular assemblies, as well as custom, moving video displays that change position and form.



MGM Cotai Theater LED Wall



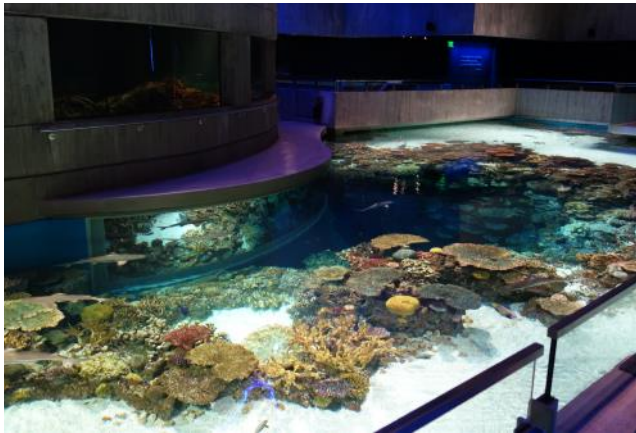
# APPLIED INGENUITY



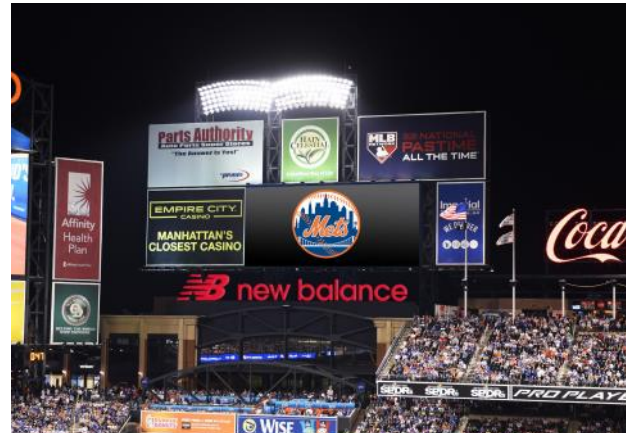
NICKELODEON VIDCON



FABIOLA PROJECT GALLERY DISPLAY



NATIONAL AQUARIUM



CITI FIELD



ABC



LIVE! CASINO



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