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Social License and Environment Protection: Why Businesses Go Beyond Compliance

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$\label{lem:condition} Social License and Environment Protection: Why Businesses GoBeyond \\ Compliance.$

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Traditionally, corporations which complied with the dictates of applicable legislation would have regarded not just their legal, but also their social obligations, as ending at that point. Sociolegal research suggested that corporations complied with law only for instrumental reasons (to avoid legal penalties) (Hawkins & Hutter, 1993) or because, "regulations are taken to be a measure of societal expectations, and thus interpreted as a guide to an organization's moral and social duties (Wright, 1998). From this traditional point of view, corporations could be expected to take actions which went "beyond compliance" only where they saw some self -interest indoing so, such as increasing profit, usually over the short term (Porter & Vander Linde, "??).

Today,however,atleastinecono micallyadvanceddemocracies,manycorporationsno longerperceivetheirsocialobligationsasnecessarilysynonymouswiththeirlegal obligations. Twodecadesoftightening regulatory rules and legal threats have led many business peopleto assume that any hazards and harmsthat their enterprise engenders, even if not clearly illegal today, will so one rorlater be subject to public censure,

atleastnotprevalentenough.Otherwise,therewouldhavebeenlittlepoliticaldemandforgovernmentalregulation.

¹Forexample,inthecaseofenvironmentprotection,ifacompanysavedmoreinreducedwastethanthecostof installingpollutionabatement equipment,itmakeseconomicsensetomaketheinvestment. Yetuntilthelastdecadeor so,politicians,environmentalists,andscholars,observingtheongoingdegradationoftheenvironmentinindustrial societies,understandablyassumedthattheopportun itiesforsuch"win -win"investmentswerefewandfarbetween,or

governmentaction, and legallia bility. Community groups and non -government organizations(NGOs)havealsocometopla yimportantrolesinpressuringcorporations tocurbtheiradversesocialimpacts. Inconsequence, corporation executive sincreasingly talkabouttheimportanceofoperatinginaccordancewiththeir "sociallicense", meaning thattheyareconstrainedtome ettheexpectationsofsocietyandtoavoidactivitiesthat societies(orinfluentialelementswithinthem)deemunacceptable.Andinsomeinstances the conditions demanded by "social licensors" may be tougher than those imposed by regulation, resulting in "beyondcompliance" corporate environmental measures even in circumstances where these are unlikely to be profitable. There are, however, limits to just howunprofitableenvironmentalmeasurescanbe. Justascorporations must meet the requirementsofsoc ialandlegalactors, they must also meet the requirements of market actors—suppliers, customers, consumers, shareholders, institutional investors, etc. That is, corporations must meet the terms of three strands of their "license to operate"—legal, social andeconomic. ²

Theconceptofsociallicenseisofrecentoriginanditisfarfrombeingfullyaccepted acrossthecorporatespectrum. There is no consensus on what so ciallicense means, how itshouldberespondedto, oriforwhenit requires measures' beyondcompliance'. Nevertheless, aseries of damaging encounters between large corporations and institutions ofcivilsociety, caused by a corporate misreading of the terms of their social license, has causedabroadercorporaterethink.Shell'sfailuret oappreciatepublicconcernsregarding

Andhencelegalcoercion, it has been assumed, is necessary to compel the

vastmajorityofcorporateenvironmental

 $^{^2}$ Here we simply recast the familiar ideas of market demands in terms of economic license requirements so that the symmetries with social and legal demands may be easily apparent.

thesinkingoftheBrentSparledtocostlydamagetobothitsinternationalreputationand sales(Neale1997).Monsanto'sfailuretorespondtotheconcernsofEuropeanconsumers about the introduction of genetically modified foodled to a consumer backlash and break down of public trust sufficient to cause a restructuring and resulting and resulting the corporation itself. (Moore, 2001) And Nike's perceived exploitation of laborin developing countries, widely publicized by a variety of NGO soperating internationally, also caused substantial damage to its branding ge. (Connor, 1996 & Yoder, 2001)

Ascorporationslearnfromsuchreputational disasters and seek to developmore sophisticated risk managements trategies, so has the concepto fsocial license become increasingly important in understanding corporate behavior, and in explaining why, in what circumstances, and to what extent, corporations may choose to go be you compliance with their existing legal obligations. It is also oaconcepto fconsiderable significance to policy -makers, opening fruitful possibilities for influencing corporate behavior not just directly through regulation, but also indirectly (and perhaps more powerfully) by empowering various in stitutions of civil society.

Yetthesociallicenseanditspolicyimplicationshavebeenthesubjectofverylittle
empiricalstudybysocialscientists,studentsofregulation,orpolicymakers.Indeed,the
economic,socio -legalandpolicyliteratureonregulatoryadminis trationtraditionallyhas
focusedonexplainingcorporatecomplianceandnon -compliancewithexistinglegal
requirements,tacitlyassumingthatregulatedbusinesscorporationstakecostlymeasures
tomeetpublicpolicyaspirationsonlywhenspecificallyre quiredtodosobylawand

whentheybelievethatlegalnon -complianceislikelytobedetectedandharshly penalized. Onlyrecently, and to a limited extent, has a broader literature begun to evolve, particularly in the field of corporate environmental magement.

Inthisarticle, we examine empirically, the role of social license as it relates to one social problem – environmental protection – and as it relates to one particular industry – pulp and paper manufacturing. We show why the social license is important, the circumstances in which it may encourage companies to build in a margin of safety or togo further "beyond compliance", how its terms are monitored and enforced, and how it interacts with what we term the regulatory and economic licenses. Finally, we explore the social policy implications of our findings.

I.ResearchMethods

Weoptedforasector -specificapproach,inpreferencetoexaminingaselectionoffirms inavarietyofindustries,becausetheenvironmentalchallengesconfronting enterprises, thesocialforceswhichcanbebroughttobearuponthem,andtheiractions,arelikelyto behighlydependentuponthecharacteristicsofeachparticularindustrysector.

Indeciding *which*industrialsectortostudy,thepulpandpaperind ustrywasanattractive optionforanumberofreasons.Pulpandpapermills,whichhistoricallyhavebeen

³Seeforexample,Becke r(1968);Stigler(1970);Miller&Anderson(1986). Thereisempirical as well as theoretical support for this deterrence -based theory of compliance. According to Regens, *et al.*, YEAR?, "We also find that pollution control investment is positively related to the EPA enforcement budget, suggesting at the very least the industries believe that the EPA will increase its investigatory efforts as their budget increases."

⁴Seeforexample,Ghobadian, etal. (1998);Reinhardt(2000);Yosie&Herbst(YEAR?);Na sh(2000).

sourcesofextremelyserious waterpollution and offensive fumes, have been atornear the top of the environmental agenda in every nation in whichheyoperate.Pulpmills' chemical-intensive processes generate visible and serious environmental risks, along with considerableconcernfromlocalcommunities, even indeveloping countries. (Sonnenfeld, year?) And particularly with respect to emissions of dioxinfromchlorine -based bleachingprocess, the industry has captured the attention of environmental activists enablingustoexaminetheinfluenceofthesebodiesoncorporateenvironmental performance. At the same time, the industry is intensely compet itive, plagued by periodical overcapacity, and only intermittently profitable. Firms in the Northern HemispherearethreatenedbylowercostproducersinsoutheastAsia,andinvestorsdo notseetheindustryasaparticularlyattractive. Thusenvironmental managersinpulp millshavetofightparticularlyhardforfundsforcostlyenvironmentalmeasures, particularlyofthe 'beyondcompliance' variety. Moreover, potential environmental innovations by one facility can copied by others relatively easily, so thatthegainsfrom innovationmaybeshort -lived. Finally, it has proved difficult for firms to capture additionalmarketsharebycreatingdistinctive, "greener" products. Thus the industry posesademandingtestfortheeffectivenessofsociallicensep ressures.

Notwithstandingtheeconomicchallenges,inrecentyears,pulpmillshavehadagood recordoflegalcompliance. ⁵Forthemostpart,thefacilitiesinoursamplecompliedwith

⁵TheEPA's"SectorFacilityIndexingProject,"comparing"significantnoncompliance"asdetectedbyinspections and industryreports, found that in 1998 and 1999, American pulpmills (n=244) had lower levels of significant noncompliance --4.3 % for clean water regulations, 0% for RCRA (solid waste), and 21% for clean air requirements than most other "dirty" industrial sectors (petroleum and metals manufacturing and smelting). (Stanley, 1999) An EPA study of pulpmills in southeastern states in 1982 -84 found 6% in "significant noncompliance" with permit levels, and that four of the 56 mills in the study created most of the instances of significant noncompliance. (Magat & Viscusi, 1990)

thelaw,asspecifiedintheirregulatorypermits.Indeedthey"over complied"insome respects,emittinganaverageof37percentofthewaterpollutants ⁶allowedbytheir permits.Thustheindustryprovidesfertilegroundforexaminingwhetherandhowfar firmsarewillingtogo *beyond* compliance,andfordeterminingwh atfactorsexplain differenceamongfirmsinthatregard.

Moststudiesofcorporateenvironmentalpoliciesandperformancehavereliedeitheron

(a)structuredquestionnairesmailedtolargenumberofcompaniesinvariouslinesof

commerce, ⁷or(b)in -depthcasestudiesofoneortwocompanies, oftenselectedbecause

oftheirreputationforinnovativeenvironmentalmanagement. ⁸Thesurveymethodology

oftensuffersfromlowresponserates(whichmakesthedatalessrepresentative), ⁹from

theresearchers' inabilitytoprobegeneralresponsesforconcretedetailsandreliability,

andfromvarianceintheindustrialprocessesandenvironmentalcontextsofthe

respondents. Thein -depthcasestudiesrankhigherinreliabilitybutareweakinexternal

validity(representativeness) and explanatory power.

Inthisstudy, we have charted a middle course, conducting interview -based studies of 14 firms (manufacturers of bleached paper pulp) that use a single production technology.

Thus we have so ught to hold constant (moreorless) the nature of the environmental challenges and the economic and technical constraints our respondents face, while

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⁶BiologicalOxygenDemandandTotalSuspendedSolids.

⁷Seeforexample,Baylis, *etal.* (1998)(postalquestionnaireto420manufacturingandprocessingcompanies). ⁸Seeforexample,Hoffman(1997),Prakash(2000).SeealsoGhobadian, *etal.* (1998)(surveyandanalysisoffour firms).Amoresophisticatedmet hodologicalapproachistakeninR.Florida,M.AtlasandM.Cline."WhatMakes CompaniesGreen?"paperpresentedto95 thAnnualMeetingofAssociationofAmericanGeographers(Hawaii,March 1999).Thisinvolvedamuchlargernumberoffirmsandcomparison of matched enterprises. This studyhowever, has adifferentfocus from our own, being concerned within ternal organizational factors.

varyingthesocialcontextswithinwhichtheyoperated. The sample is small enough that we were able to conduct lengthy interview sin person, followed in many cases by telephone conversations.

Indeterminingthesizeofoursample(i.e.,thenumberoffirmsselectedforstudy)there
wereinevitablytrade -offstobemadebetweenbreadthanddepth.Weweremindfulthat
wewanteda samplesizelargeenoughtoexplorethemainvariables,butsmallenough
that,givenresourceconstraints,wecouldexamineeachofourselectedfirmsinsufficient
detailtoexploreadequatelykeyresearchquestions.Wechose15firmsinall:seveninth
e UnitedStates(4inthestateofWashington,3inGeorgia),fourinCanada(British
Columbia),andfourinAustralia/NewZealand.OneoftheAustralian/NewZealandmills
subsequentlyclosedbeforeitwaspossibletoobtainadequatedata,leavingatota lsample
sizeof14.Allfourcountrieshavesubstantialtimber,pulpandpaperindustries,andan
overalllevelofeconomicdevelopmentandpoliticalculturesufficientlysimilarto
provideusefullessonsfromtheother'sexperience.

Inselecting *which* millsineachjurisdictiontostudy,wechosenottoselectthemat random,becausewewantedtobesuretoincludesomefirmsthathadareputationfor outstandingenvironmentalperformanceandsomethatdidnot. Throughpreliminary discussionswithregul atoryofficials,industryassociationrepresentatives,environmental NGOsandotherinformedsources, weidentified facilities with a reputation for excellence. We chose 3 mills (1 in each of BC, WA, GA) for their good reputation. The total number of mills that metour study criteria (same technology) in each jurisdiction

⁹Seeforexample, Greening & Gray (1994), (postal question naire to 451 companies) with 27% responserate.

 $were: BC=14, GA=5, WA=4, NZ=2 and \qquad AUS=1. We then chose all available mills in WA, NZ and AUS. In BC we deliberately chose a mill that was operated by the same parent corporation as two of hermills already chosen, enabling us to compare the relative impact of corporate management and regulatory jurisdiction. We then chose two mills in BC that had a reputation for being average or below average. <math display="block">^{10} In GA, two mills were excluded for difficulty of access reasons. Thus, of the 14 facilities in our sample, 8 were chosen on the basis of their jurisdictional one, 3 were chosen based on their reputation for excellence, 2 on the basis of their reputation for being average or below average, and 1 because it was owned by the same company as two other mills in the study. The sample also includes smaller independent operations as well as mills owned by large transnational corporations.$

We conducted lengthy on -site, semi-structure dinterviews with environmental managers at each sampled facility and in most cases with mill managers as well. Our discussions were designed to elicitin formation about each facility's environmental management and pollution control history, control systems, general approach to environmental problems, and relations with regulators and environmental activists. We probed for specific examples, collecting detailed stories of particular environmental, regulatory, and economic problems, current or past, that illustrated the firm's charac teristic response to challenges 11.

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protection actions company personnel were proudest of and why they had taken them; What actions they believed still needed to be taken and why these actions had not yet been taken; The extent to which

¹⁰The sample eisreasonably well representative of the range of Canadian performance. In 1991, the 14 mills in BC had a range of AOX performance from 0.6 to 6 kg/ton. The performance of facilities in our sample ranged from 3 to 0.6 kg/ton and ranked 1 st, 6 th, 9 th, and 11 th. In 1998, the performance of all 14 mills ranged from 0.2 to 0.7 kg/ton. Facilities in our sample ranged from 0.4 to 0.5, and ranked 3 rd, 6 th, 6 th, and 12 th.

¹¹ More specifically, in our interviews with pulp mill personnel, we asked, inter alia: Wha ten vironmenta protection actions company personnel were proudest of and why they had taken them; What actions they

Inmostcases, wealso interviewed officials incorporate head quarters, regulators, and environmental activists familiar with the mills in question. We sought additional perspectiveoneachfacilitythroughinterviewswi thindustryassociationofficials, environmentalconsultants, financial analysts, corporate lawyers, other commercial third ¹²Weachievedahighresponserate, partly (we parties and, onoccasion, millemployees. assume)becauseweprovidedguaranteesofa nonymitytoourrespondentsandpartly(we assume)becauseofthenon -confidentialnatureofmostoftheinformationbeingsought. Intotal, we conducted approximately 70 interviews. In a small minority of cases, where directcontactwasnotpracticable,w econductedtelephoneinterviews.

Ourresearchonsociallicenseformedpartofalargerstudyinwhichinterview -based researchwascomplementedbyharddata(primarilymeasuresofwaterpollutants:total suspendedsolids(TSS), biological oxygendem and (BOD), and absorbable or ganic ¹³.However,becausewecouldnot halides(AOX))atmostofthemillsinoursample ¹⁴,we meaningfully quantify the intensity of the social pressures each mill experiencedcanprovideonlyqualitativeevidenceconcerningtherela tiveimportanceoffirms'social licensesinexplainingtheirenvironmentalperformance, and in this article, were feronly

production and environmental management decisions were integrated; How the company evaluated its environmental performance; What specific environmental technology was currently in use at the facility, andwhenandwhyithadbeeninstalled; Whattheir experience had been with environmental reg ulatorsand inspectors; What their experience had been in relations with host communities and environmental activists concerningenvironmentalissues.

¹²WeinterviewedHQpeopleat11/14facilities,regulatorsat10/14facilites,andactivistsat6/14faci lities. In some cases, we have conducted follow -up telephone interviews with mill personnel and relevant regulatoryofficials.

¹³SeeKagan, etal. (forthcoming LawandSocietyReview).

¹⁴Social license pressures are not merely difficult to measure, but in herentlyimprecise and malleable. For example, activists demand different things from different mills, and mills employed different ways of

tangentiallytoourharddata, which can be found in Kagan, Gunningham & Thornton (2002).

II. The Impact of Social License

The sociallicense, then, is based not on compliance with legal requirements (although breachoftheserequirementsmayjeopardizethesociallicense)butratheruponthe degreetowhichacorporation and its activities are accepted by local communities, the widersociety, and various constituent groups. Many pulp millofficials spoketous quite explicitlyabouttheimportanceoftheir"sociallicense."Asonemill -levelenvironmental managerputit:"Its very important how the community sees the plant -howtheyare thinkingisourlicensetooperate."Amillmanageratanotherfacilitysaid,"Wehaveto continuouslyconvincethepublicwehavearighttoexist."In1999,managersatyet anothermilltoldusthatthesanctiontheyfearedmostforbreachingreg ulationswerenot legalbutinformalsanctionsimposedbythepublicandthemedia, and hencetheywere motivatedlessbyavoidingregulatoryviolationspersethanbyavoiding"anythingthat couldgiveyouabadname."Inthewordsofoneenvironmentalma nager:"Ifyouare goingtorunthemillinthecommunityyouhavegottolivewiththem".

Howdidsociallicense,then,actuallyaffectenvironmentalperformance?Attributing

particularmeasurestosociallicensepressuresaloneoftenisdifficult.Yet referencesto

the potency of social pressures permeated our interviews with pulp millofficials. An environmental manageratan American mill, for example, said:

"The EPA is such a monolithit can't adapt. It takes a decade to get something to happen. The environmental community is really setting the tone. It's done far more to make companies accountable for pollution. It does more to keep meon mytoes, to give mean incentive to go to my managementands ay, we have got to do better because the community can sue us and also give us the biggest rewards."

Asthisquotationsuggests,thesociallicensecanmakeadifferenceinanumberof significantways.First,thesociallicense,bypunishingorrewardingfirmsintermsof reputationcapital,caninduc efirmstotake"beyondcompliance"measuresofthe"good citizenship"variety,thatis,theyentailexpenditureswhicharenotjustifiedintermsof traditional,quantitativeanalysesforassessinglikelyprofitability;rather,theyarejustified onthe groundsthatenhancingthefirm'sreputationforgoodenvironmentalcitizenship (andavoidingareputationforbadenvironmentalcitizenship)willintheshortorlongrun be"goodbusiness."Second,itlendsextraenforcementenergyandweighttoexisting regulatoryandlegallicenserequirements,pushingregulatedenterprisestowardfulllegal compliance --andeventoinvestingin"beyondcompliance"measureswhichprovidea "marginofsafety" ¹⁵againstviolations.Thusasnotedearlier,themillsinou rsamplehad

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^{15 &}quot;Margin of safety" measures are those which "overcomply" with current regulations, much as a motorist might drive 5 mph below the speed limit on a well -policed highway. Thus many firms construct effluent treatment systems that establish limits on pollutants that are more stringent than required by regulations or

reducedkeypollutantsintheireffluentwellbeyondthelimitsspecifiedintheir regulatorypermits. ¹⁶Inaddition,sociallicensepressurescanresultinatighteningofthe regulatorylicense.

EnhancingReputation. The conceptof social license is closely related to the notion of "reputation capital." As Joyce and Thomson putit, "Reputation capital represents a communication sbridge that predisposes NGOs, communities and other groups to enter into open discussion rather than hostile opposition. Reputation capital carries with it credibility, such that the up -front costs and risk associated with gaining social acceptability are reduced." (Joyce & Thomson, 1992) Those with reputation capital, it is argued, will gain readiest access to the means by which to make future profit: development approvals; preferred access to prospective areas and products; the ear of government; the trust of regulators; the tolerance of local communities; and the least risk of being targeted by Environmental Non Government Organizations (ENGOs).

Onepulpmillenvironmentalmanagerreflectedthesameidea —thatbuildingreputation capitalisagoodeconomicinvestment --whenhetoldus,inthecontextofadiscussionof localcommunityenvironmentalactivists,"Yo uhavetodeveloptherelationshipintimes ofpeace...[because]...whentherearespills,tankfailure,dioxinissues,itgetstough."

Itwasinthesecircumstances,heargued,thatthetrustandsocialcapitalthathadbeen

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their permits, or which have a larger —than-required capacity, in order to ensure that irregularities or breakdownsinthenorma lproductionandtreatmentoperationsdonotresultinaseriousviolation.

¹⁶ For mills in the United States and Canada, we were able to compare each mill's BOD and TSS discharges with the legal limits prescribed in their regulatory permits. In 1998 -1999, these nine mills' BOD emissions ranged from 18 to 85 percent of their permit limits, with a mean of 38 percent. For TSS, the range was 14 to 66 percent of permit limits and the mean was 36 percent. No figures for AOX is reported because US permits don other scriben unericlimits for AOX.

builtupearlier,becamecrucia llyimportant.Indeed,inonecase,sogreatwasthe credibilitythatthecompanyhadestablishedwiththelocalcommunityandwithlocal environmentalgroups,thatwhenGreenpeacecontemplatedacampaignagainstthe company,itmetwithaveryhostileloc alreactionandmovedontoeasiertargets.A manageratanothermilltalkedaboutthepitfallsoffailingtobuildreputationcapital:"It worksagainstyouwhenthingsarebehindthecommunity'sback.Ifyouhaveagood relationshipwiththepublic,then thegoodwillwillbethereandwhenthereistroubleyou willgetthebenefitofthedoubt --youwillhaveapositivebankaccount."Regretfully,he added, "Wehaveazerobankaccountorwe' reindeficit." (Oneconsequencewasstrong localoppositionto themill'scurrentplansforfuturedisposalofsolidwaste, whichmeant thecompanyfacedtheprospectofhavingtobargethewaste, atmuchgreatercost, toa distantdisposalsite).

Buildingreputationcapitalalsogavecompaniesfargreatercontrol overtheirown destiny. For example, some, reflecting on pastex perience, believed they had been largely reacting to the agendas of other stakeholder groups, that they were unable to anticipate problems, and that the adhocsolutions generated when they did react, of tencreated as many problems as they solved. This led a number of companies to develop proactive strategies for dealing with communities and others. One senior corporate of ficial described the situation very bluntly: "looked at from a business standpoint, its risk management. We became responsible environmental stewards because it's not in our

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¹⁷ In addition, mill officials were exploring the possibilities for treating the waste to make it a reusable commodity. "Things there might be opportunities," the firm's environmental manager said. Thus social licensepr essurescansometimesinstigateasearchfor"win -win"alternatives.

financialinteresttoriskoperationsbeingcloseddown."Orasanotherputit: "anything thatcouldgiveyouabadnameisanunpredictablerisk".

Thussociallicensepressuresactingaloneanddirectlycompelledmillstotake"beyond compliance"odorcontrolmeasures. Asonemillmanagerputit: "Wewantpeopleto knowwearehere, but not through their noses". And so, formany mills, odorcontrol became amajor focus. When officials at AKasked. "What are you proudes to finy our environmental program?", the unequivocal response was odorreduction:

"Weusedtoget300 -350odorcomplaintsperyear,butnowitsdowntoabout50 thisyearsofar.Wespen talotofmoneytoachievethis...\$13Mtoputinan odorcontrolsystemthatisnotrequiredbylaw...Butifthereissustainedpublic pressureweareresponsive....Ourbehaviorispredicatedbythefeelingsofthe localcommunity....Wehavededicatedscru bbersandanon -condensablegas incineratorsystemandwearerunningatafractionofwhatourlicensepermits.

Thedriveristopacifythecommunity."

Weheardverysimilarstoriesatanumberofothermills: "Wedidn'thavetoputinthe stripper, but odoristhekeytothecommunity. Wehadaproblemwithaparticular source, we couldn't doit any other way. The only way was to remove it at source, but it wasn't a consent [permit] requirement.

"Similarly,forsomemillsthatwerehighlyvisibletobr oaderurbanaswellas localcommunities(aswhenthemillcouldbeseenbythousandsofmotorists

dailyonabusyhighway),suchasPW,"Thebigissueisn'ttheregulator,its appearance,it'sthesteamcomingoffthestack. Thisis99.5% waterbutitsa n aestheticissue. Weknowthat putting in condensers will cost and provideno economic benefits but it protects our business license."

AndaccordingtothemanagerofapulpmillinasmallertowninGeorgia:

"Adecisionwasmadenottofightitasaba ttlebuttounderstandwhatthe
communitywantedandtospendmoneywiselytogetthesupportofthe
community.Forexample,watercolorisnotregulatedandisnotincludedinthe
permitsowecouldhavefoughtaboutit,butwedecidednotto.Weinstille din
ourselvestheviewpointthatwewantedtobeagoodneighbor,it'sthelocal
stakeholdersthatgiveustherighttooperate."

Whereaslocalcommunities often have made odor control and other esthetic is suespart of pulp mills's ocial and regulatoryl icenses, activism by ENGOs has focused primarily on the use of chlorine as ableaching agent, because it results in emissions of chlorinated organic compounds, particularly the extremely persistent and toxic dioxin. For example, in November, 1988, dioxins were discovered in shell fish near a millinour sample. In highly dramatic public demonstrations, environmental activists targeted the mill's parent company, a forestry company, and the millitself. By 1989, the mill was spending \$1 billion on modernization and expansion, including improvements indioxine missions. In 1991, chlorinated organic emissions from this mill were the lowest formills of its type in British Columbia.

Atanothercompanywetalkedtoin1999,headofficepersonnelcharacterizedthe companyasnothavingtakenenvironmentalissuesseriouslyuntilaGreenpeace demonstrationinwhichactivistsscaledthecorporateofficetoweranddrapedahuge bannerwithslogansoverthefrontofthebuilding,puttingthecompanyandits environmentalreputationintothefrontpagesofthenewspaper. Thecorporateofficials believedthishadbeenapivotaleventingettingtheenvironment"intheface"ofsenior management,generatingacommitmenttoimproveenvironmentalperformance. Asone ofthempu tit: "Itwasthestartofawakeup. Wehavetodomorethanjustcrankthe mills."

Intermsofthecompany'ssubsequentenvironmentalperformance,betweenNovember 1990andJanuary1994,averagebiologicaloxygendemand(BOD)emissionsatPG declinedb yathird,erraticallybutgradually,fromabout15,000lbs/daytoabout10,000 lbs/day.InFebruary,1993thecompanyappointedahighprofileex -government regulatoryofficialasseniorvice -presidentfortheenvironment.InJuly1994,the companyadop tedanambitioussetofcorporate"environmentalprinciples,"includingthe establishmentofcompany -wideenvironmentalgoals,strategiesandtimeframesto achievethem,andtheintroductionofsystemicenvironmentaltrainingandaudit programs.Inthetwo yearsbeginningOctober,1994,thecompany'saverageBOD dischargesdeclinedalmostanother50percent,toanaverageofabout5000lbs/day (exceptforanaberrantriseinearly1996).Themil1'semissionsofTotalSuspended Solids(TSS)followedasimila rcourseandtimetable,droppingrapidly before anew regulatorypermitwasissuedtothefacility(inNovember,1995).Thusinthecompany's

caseaswell, sociallicense pressures appear to have been an important source of "beyond compliance" efforts, tri ggered in the early '90 sby the shock of adverse environmental publicity alone and later, at least in part, by anticipated tight ening of the regulatory license as well.

AugmentingEnforcement. Sociallicensepressuresfromlocalcommunities, our interviews indicated, have been aprimary source of pulp mill progress in reducing the impact of foul odors and other adverse esthetic impacts, such as discoloration of receiving waters and emission of plumes of steam. Social pressures act both directly (as described above) and indirectly through a ugmenting the enforcement of existing legal pressures. Although regulations establish limits on ill -smelling sulfuremissions, and or control may not in itself behigh on a regulator's list since its environmental impacti seminimal (as defined by most regulatory regimes, which emphasized emonstrable adverse effects on humanore cosystem health). But in the case of pulp mills, odorisus ually the community's highest priority. In some cases, social pressures drove regulators to use the power of law to demand strongerodor controls. Thus in Australia, one environmental manager described his mill's prosecution experience as follows:

"Wehavebeentocourtthreeorfourtimes, and pleaded guilty. Wehave only argued over the size of the fine. They were allowed a related issues. For example, we had a problem resulting in pulp going into the foul water accumulator and stuffing that upsoit couldn't be pumped into the stripping systems oit was

dischargeddownthedrain. Thenearest privateresidence is 2 kilometers away. The towns are five or six kilometers away. It was one of those still, quiet nights, and it stank very badly. It was very apparent what it was. There were lots of complaints to EPA. There was a degree of negligence, but was a prosecution appropriate? We were in an owinsituation. If you cause odor in a residential area you can't win." (emphasis added).

TighteningRegulatoryLicenseRequirements .Inadditiontodirecteffectsleadingto beyondcompliancemeasures,th eENGO'scampaignagainstdioxininBritishColumbia alsoledtoatighteningoftheregulatorylicenserequirementsfordioxinemissions. When diox in swere discovered in shell fish downstream from pulp mills in 1988 in BritishColumbia, a combination of en vironmental activism (especially by Green peace) and consumerconcernsgenerated sufficient political pressure to result in regulations the followingyearthattightenedconventionalpollutantrequirementsandincreasedfinesfor violations. Two years later , political pressure had not dissipated, and an ewrule requiring thecompleteelimination of chlorinated organics in pulp mill discharges by December 2002waspassedin1991.Greenpeacekeptupthepressureintheearly1990s;it organizedaconsumerboyc ottofchlorine -bleachedpaperinGermany,generating demandsfromsomecustomersforchlorine -freepulpfromCanadianproducers.Ata Europeanport, Greenpeacememberspainted a 100 -meterlongsloganonthehullofa cargoshipcarryingpulpandlumberfr omCanada.Theneteffectwasthatchlorinated organicdischargesfrompulpmillsinBritishColumbiadecreasedinrangefrom0.6to

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¹⁸ For the U.S., 43 FR 7572, Feb. 23. 1978, as amended at 43 FR 34785, Aug. 7, 1978, established emissionslimitsfortotalreducedsulfur(TRS)frompulpmills. The EPA's Cluster Rulecha racterizes TRS

6.0kg/tonin1991to0.2to0.72in1998,andalmosttenfolddecreaseinthemaximum levelofdischarge,farinexcessof thedecreaseseenintheUnitedStateswherenosuch rulewasinplace(andwherefarfewercompaniesexportedtoEurope).

VariationinResponsetoSocialLicensePressures. Differentmillsinoursampletook verydifferentapproachestotheissueofmee tingtheirsociallicenseandbuilding reputationcapital.Oneortwoseemedoblivioustoitsexistence.Sometookastrategic approach,suchas"buyingoff'thelocalcommunity'sobjectionstoparticularemissions byofferingtosupplyitwithbetterqual itydrinkingwater,ortryingto"winheartsand minds''throughpublicrelationscampaignsinlocalschoolsandwithlocalcommunity organizations.Stillotherssawtheirsociallicenseandtheirreputationcapitalascentralto theirveryexistence,towo rkdirectlywithstakeholders,tobetransparent,andtorespond substantiallytotheirconcerns.Somecompaniesgraduallyshiftedfromdefensiveness towardresponsivenesstocommunityandNGOconcerns,asinthecaseofonecompany, whoseenvironmentalma nagertoldus:

"Tenyearsagowewerereactingtothreatsfromthepublic, from the regulator, and from the greens, and we didn't control the process. We built a virtual wall around our selves and no one on the outside was told anything. Now we are going through a process of turning that around, of opening the gates, of an attitudinal change from inside. We went through en or mous changes over the years but we never told anyone, so the only story out the rewast he green one, that we were engaged in environmental rape and pillage, and it is n't true. So

wetookstockofrealthreats,thentookthebravestepoftalkingaboutthem,of sayingtothepublic,thisiswhatwe'vedoneandthisiswhatweplanto do...onceyoustartthatprocess,peoplecomedownheavy onyou,butyou needthefortitudetokeepgoingandbetotallytransparent -we'llshowanyone anythingWhy?It'stherightwaytogo...Itcomesdowntoindividualsand overtime --trust,listenandrespond."

Similarly, anothermillmanagernoted:

"Inthe oldtimes, we scoped the project, put it together, got Board approval, did the costings, brought it back to the Board for final costings — then announced what we were going to do. And then may be the regulators had an inkling, certainly the community didn't. Now, once we have done the preliminary scoping and got the preliminary OK, we brief the community committee, and ask their is sue sand concerns, then take the seon board. They wanted no more effluents other hallenge was, can we do this and still build he new [installation], and be cause we knew this early, we could go to the designers and ask ways to achieve minimum water usage and how too ff — set this else where in the plant. We achieved this, go ten viron mental approvals from the regulators and had no objections from the community."

Managementatafewmillsinoursample, or at their corporate head quarters, were less ¹⁹Thus, while most companies responded to responsivetosociallicensepressures. perceivedsociallicensepressuresbyimprovingtheirenvi ronmentalperformance, this was not invariably the case, and some reacted to community or NGO demands withresistanceratherthanresponsiveness. Forexample, one company in our sample had considerablereasontopayattentiontoitslocalcommunity, becaus ealthoughthe companywasthemajorratepayerinthearea,itwasnotthemajoremployerandwasnot wellregarded. Therewas a history of environmental damage to the estuary adjacent to themill(whichwasallegedtobe"kneedeepindeadmaterialinwhi chnothingwill grow")andofpoorlaborrelations.Localenvironmentalandcommunitygroupswere veryactiveinchallengingthemill'sactivities, andwerecontemplatinglegalactionona number of fronts. Community opposition to the proposed opening of a newdump -site seemedlikelytoderailtheproject, causing the company to have to face spending considerableamountsinshippingitswastesubstantial distances to the next jurisdiction. Despiteallofthiscommunitypressure,themillhadaverypoorrec ordofcommunity relations. Apartfrom afleeting period of dialogue (terminated by the mill management apparently on the instructions of head of fice) the general approach had been one of stonewalling, and at the time of our field work, community groups wer enotwelcomeat themill.Accordingtotheenvironmentalmanager;

 $^{^{19}}$ There was risk in this strategy, for a mill could not be sure that environmental activists would not be able to prod regulatory license enforcers into action. In the case of L ouisiana Pacific's Samoa, California mill (not in our sample), unresolved complaints by the Surfrider Foundation about the mill's chronic violations of permissible pollution discharges into the ocean resulted in a 1989 law suit by that ENGO. The U.S. EPA joined the suit, which resulted in a 1991 consent decree. Louisiana Pacific agreed to install and operate a totally chlorine free, peroxide -based bleaching system, the first in the United States -- thereby going substantially "beyond compliance" with current U.S. law (but positioning itself for compliance with regulations that were likely to be promulgated later in the 1990s) N -B & R (Young, 1993). See also (Knickerbocker, 1994).

"thismillhasdoneahorriblejobofPRinthelastdecade.Thereisahugetrust chasmwiththelocalcommunity....odor,particulates,thevisualimpact,these arelegitimatebeefs...Thet rackrecordisn'tthere.Itworksagainstyouwhen thingsgoonbehindthecommunity'sback."

Yet,formostmillsinoursample,sociallicensepressuresappeartohavemattered significantly. Theygavecorporate officials an additional incentive to comply yor even "over-comply" with the terms of their regulatory license, for legal compliance of tenserved as an important benchmark of company cooperativeness or commitment, in the minds of social license enforcers. And social license pressures were responsible in many cases for a measure of "beyond compliance" company activity, both reducing odors and visual impacts and in accelerating the reduction of emissions of chlorinated or ganics.

III.Interactionbetweensociallicenseandeconomicandregulatory'li censes".

Thesociallicenseofcourse, is not the only influence on corporate behavior. Indeed, the scholarly literature on corporate environmental performance has revolved around the effort to specify various external "drivers" of corporate behavior, not least, regulation and economic forces. However, in the course of our field research we came to regard the concept of 'drivers' as somewhat impoverished. It implies the existence of independent, unidirectional and unambiguous pressures, whether from regula tion, communities or markets, which impact upon corporations with sufficient force that they react to them.

Yetwefoundthattheseexternalfactors,ratherthanbeingindependent,oftengaintheir forcethroughmutualinteraction.Indeed,wefounditmore usefultothinknotonlyof socialpressures,butalsoofregulatoryandeconomicpressures,astermsorconditionsof amulti -faceted "licensetooperate".Incontrast with the concept of unidirectional drivers, this concept captures the complexity of the erelationship between the regulated enterprise and keystakeholders, and it accords with an important reality we observed: the relationship between the licensors and licensees is interactive, not unidirectional, and many of the terms of the license are open on the representation, negotiation, and company initiated amendment.

Aswewillsee, the interactions among the regulatory, economic, and social strands of the license to operate of tenresultinanintensification in the overall constraints under which companies operate. In other cases, however, there are tensions between the different economic, social and regulatory forces which may pull firms in different directions. The economic license, for example, of tencalls for limits on or even reductions in environmental expenditure, while the terms of the social license push for an increase. We explore the implications of these interactions for the social license, below, distinguishing for heuristic purposes, between legal and social interactions, and economic and social interactions, while recognizing that in the real world all three may interact.

LegalExpansionoftheSocialLicense. Intermsoflegalandsocialinteractions, the regulatorylicenseoftenextendsthereachandimpactofthesociallicense, eithe rby directlyempoweringsociallicensors, or by giving the maccess to information, which

theycanthenusetopressuretargetenterprises. Conversely, the scope of the legallicense can also be expanded as a result of its interaction with the social licen se, for example as social pressures on legislators and regulators feed through in terms of enactment, monitoring and enforcement of regulation.

Themostcommoninfluenceofthelegalonthesociallicenseisthatofempowerment.

Forexample,therelative powerandinfluenceofthelocalcommunitymaybeconnected directlytotheextenttowhichitisenabledbylegislationtoparticipateindecision - makingaboutthemill'sfuture.InNewZealand,almostallourrespondentsemphasized theenormousimpactof the *ResourceManagementAct**, whichgaveindividualstheright tomakesubmissionsandchallengeanyvariationoftheconsent(thebasicpermitor licensetooperate)andwhoseinterventionsmightholdupanewprojectfora considerableperiod.Asonemil lmanagerdescribedit: "Itbecameaverypublicprocess.

In1994 -95therewere169submissionsregardingthemill." Wehadverystrongprotests.

Peoplewerefinallyabletohavetheirsay. Wehad32peoplespeakingatthepublic hearings". Thiscreatedan environmentinwhichtherewasastrongincentiveformillsto listenandrespondtocommunityconcernsbecauseiftheyfailedtodoso, theyrisked delays, possiblyforyears, inobtainingtheconsentstheyneededinordertointroduce technologicaland otherchanges.

Lawsrequiringdisclosureofenvironmentalinformationatfirmlevel, canalsoactto empowerlocal communities, albeit indirectly. The literature on community right to know in general and on the U.S. Toxic Release Inventory in particular, demonstrates the

potentialpowerofinformationalregulationinthiscontext.(Fung,1998)Forexample,the
powerofpublicitywasseenasparticularlypotentbymostpulpmillmanagementandin
Canadathe"environmentalscorecard"publishedbytheProvi nce(outlining
environmentalperformanceindicatorsandmajorinfringementsofregulations)wasseen
as"aprettyeffectivetool -ifyouhaverecurringenvironmentalproblemsyoucomeupon
thelist -itkeepsyouincompliancebecausepublicpressureismo redemandingthanthe
regulatoryagencies...agenciesaremoreforgiving".

These examples do not exhaust the list of ways in which the terms of the legal license expand the social license. Rights of standing to sue either a company or are gulatory agency, broader is sue so faccess to information, legal duties of companies to consult with local communities, and penetration of the legal decision—making process can all serve to expand the scope of the social license. In addition to criminal sanctions and administrative notices (and in the USA, civil penalties) companies that breach their legal obligations are also vulnerable to either individual or class actions from citizens in jured as a result of the facility's illegal activities. In the case of local reside—nts, they can oppose, by both legal and political means, any expansion of the facility, the reby slowing or halting its economic growth. For example, they may challenge or oppose variation in the permit requirements or in local or dinances, or they may lobby local and state governments to limit any expansion of the mill under planning and land use laws.

Theextenttowhichacompanycomplieswithregulationisalsousedbycommunityand environmentgroupsasaperformanceindicatorbywhichthecommunityju dges

compliance with the broaders ocial license. For this reason, some companies fear enforcementnotsomuchbecauseofanypenaltylikelytobeinflictedbytheregulatorbut ratherbecause of the resulting publicity, and as a consequence, the informals anctions imposedbythepublic,themedia,andperhapsalsobyEuropeanmarkets.Forexample,in theearly 1990s, Greenpeace was highly successful intargeting individual mills in our sample, on the basis of their environmental record and marshalling consu merand customerpressureagainstthem. Certainly compliance with regulation of ten will not in itselfbesufficienttosatisfybroadercommunityconcerns, whichoften extendwell beyondthestandardsembodiedinregulationandcommonlyincludeissuessuch aswater colororodor, which may not even be directly addressed in the permittis elf. However, at theveryleast, substantive non -compliance with the permit and regulation will send broadersignalstothecommunityconcerningthecompany's failure to disc hargeits broadersocialandenvironmentalobligations.

SocialExpansionoftheLegalLicense. Whilethetermsofthelegallicensecommonly servetoexpandthescopeofthesocial, the converse is also true. For example, a failure to respond appropriate lytothesocial license, involves the risk of expanding the regulatory license, as politicians and ultimately regulators, respond to community demands. As one senior corporate of ficial pointed out; "local communities have the ability through the political process to create the regulations that allow you to do business... we operate under a license from the public in every place we do business so we have to be sensitive to public concerns". Again, so sensitive are some companies to the messages they send to

localcommunities, that they are willing to compromise substantially on the terms of their legallicense and permit conditions. Thus a sone company recounted:

"whendioxinfirstshowedupin1991whenwerenewedourwastewater permittherewereconcernsfr omthecommunitythatadealwasdone betweenthecompanyandthegovernmentbehindcloseddoors.Wedidn't likethepermitlimitbutwedidn'twanttoappealitbecausethatwouldsend wrongmessagetothecommunity.Wehadsometrusttobuildup,wedid n't wanttoappealthepermitforthatreason -weasked,whatdo youwantinthe permit-andsosentamessageoutandsavedourreputation[withthe community].Thepublichasabilitytoappealthepermit -nobodyappealedit butwasverycontroversial -eve ryotherpulpcompanyinthestateappealed theirpermit."

However, we also found that mills sometimes use compliance with the social license to gain some respite from some of the terms of the regulatory license. For example, good community relations can sometimes be used to gain additional regulatory leverage. As one environmental managerargued (TS) "If you can sell something to the local community they will stand in front of the regulators on your side". This manager gave the example of a dispute between the regulator and the mill concerning a Superfund site. Although the company wanted to proceed with a clean upplan, the government was reluctant to sign of fon anything. "[B] ut the environmental groups mobilized behind us

and that got EPA and [the St at eregulator] in the room and to achieve the first settlement of Superfunds it ein the country without litigation ... its aved us millions of dollars."

Morebroadly, the wayen forcement agencies exercise their discretion *maybe* influenced substantially by community more sand expectations. Onoccasion, regulatory action could even be viewed almost as a surrogate for community action, with the company regarding their main license as being social rather than regulatory. For example, in the Australian case cited earlier, the regulator's policy appeared to be not to prosecute simply because the rehad been abreach of environmental standards, but rather to do so only when the level of community complaints about a particular incident was adjudged to be sufficiently high.

SocialandEconomicLicenseInteractions. Themaininteractionsbetweenthe economicandsociallicenses areatthelevelofenforcement.Becausetherearenoformal meansbywhichtoenforcethesociallicense,sociallicensorsseektodosoindi rectlyby bringingpressuretobear.Forexample,nationalandinternationalenvironmentalgroups exertpressurelargelythroughtheattempttoimposeinformaleconomicsanctions.Bad publicitygeneratedbycarefullystagedmediaevents,suchasprotestors chaining themselvestopulpbarges,orstagingpublicprotestsinheadoffice,canimpactdirectly oncorporateimageandsalesandindirectlyonsharepricesandaccesstoinvestment capital.ThuswhenmembersofoneenvironmentgroupataEuropeanport painteda derogatory100 -metre-longsloganonthehullofaCanadiancargoshipcarryingpulpand

lumber,namingthecompanies involved, this caused not only major embarrassment to one of the companies in our sample but also at hreat of consumer and custo merboy cotts.

Sometimesthepressureontheeconomiclicenseismoredirect, as when local community pressure threatens a company's access to essential resources.

20 For example, one of our sample firms was a cutely aware that it was involved in increasingly tough competition forwater, that it was perceived as a profligate user of that resource, and that a failure to justify its water use and broader economic contribution to the community could result in a substantial curtail ment of its operations.

Environmental groups also seekto influence *customer* preferences, sensitizing them to the environmental consequences of the products they buy and urging and or chestrating consumer boy cotts. This inturn may affect the purchasing decisions of buyers of pulp products and directly threaten market access. Thus RF, which farexceeded the performance of the other American mills in our sample, in reducing chlorinated organic emissions, did so in response to European customer concerns regarding dioxinin the diapersity of duced. The company "Feltit's not good business to be in the middle of the [dioxin] controversy."

Similarly,consumerdemandinEuropeforchlorine -freepaperplayedasignificantrolein inducingSH -anexporterofmarketpulp --tomakesharpreductio nsinitsAOX emissionsduringthe1990s,achievinglowerlevelsin1998 -99thanothermillsinBritish

²⁰Suchresourcesincludelegalresourcessuchaspermitstobuild,permitstoo wellasphysicalresourcessuchasenergy,water,lumber,etc.

perate, zoning restrictions, as

Columbia(andindeed,lowerthanallmillsinoursamplesaveRF). American pulpmills, on the other hand, generally are not export oriented and hence a remore insulated from European demands for ECF and effluent -free paper (Norbert -Bohm & Rossi, 1998:230). With the exception of RF, with its special customer concerns, the American millsinour sample had below -average records in AOX reduction in 1998 -99 (as compared to our sample of mills as a whole).

IV. Variation in the Terms of the Social License

Sinceeachcommunityisunique,sinceeachmill'sgeographicallocationinrelationtoits localcommunitywilldiffer,andsincethedegreetowhicha localcommunityis economicallydependentuponamill,willalsodiffer,sotoowillthestrengthandtermsof thesociallicense.Inpractice,wefoundthatallthemillsinoursampleexperiencedsome communitypressure,andinmanycasesthatthiswass ubstantial.Nevertheless,almostall ourcorrespondentsacknowledgedthat"locationandgeographyhasalottodowithit" andthata"millintheboondocks"withaneconomicallydependentlocalcommunity couldbeanticipatedtohaveamorerelaxedsocial license.

Infact, variation between the terms of the social license of different mills in our sample of tenappeared to influence differences in environmental outcomes.

22 For example, one

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²¹Atthesametimeitisalsoclear,asnotedearlier,thatEuropeandemandforECFpaper,atleastinthelate 1990s,wasnotsostrongastoenableproducerst ochargeapremiumforECFpaper.Henceevenmillslike SH,withtheabilitytooperateECF,felteconomicpressurestobackofffromeliminatingallAOX,aslong asregulatorsarestillallowingthemtodoso.

²²Wehavedescribedelsewhere(Kagan,Gunnin ghamandThorntonopcit)ourattemptstomatchpairsof companiesoperatinginbroadlysimilarcircumstancesbutwithdifferentsociallicenseterms.

millwithexemplaryenvironmentalperformancehadafarmoredemandin gsociallicense thananotherwithrelativelylaxenvironmentalperformance. ²³Theexemplarymillwas located on the water front of a fairly large city, once he avily dependent on trade inforest products, but now with a much more diversified economic base. T hemillwasvisibleto thewhitecollarworkforceinnearbydowntownofficebuildings. Thecitywas also home toseveralenvironmentalgroupsthatpaidcloseattentiontothequalityofthemill's receivingwater. The laggard mill, in contrast, was the pri maryemployerinasmall companytown, miles from the nearest large city. While it experienced some local complaints(fromownersofhigh -pricedvacationhomes),forthemostpartitsmore isolatedlocationbuffereditfromcommunityorenvironmentalgroup pressure.The managersatthismilldidnotperceivethemselvestobevulnerabletolocalpressuresto anythingliketheextentasthoseattheleadingmill,norhadtheycomecloseto establishingthesamelevelofcommunicationordialoguewithenvironm entalgroupsor regulators. Thus each mill's social license appears to have been avery important reason fortheirdisparateenvironmentalperformance.

However, corporate response to the terms of the social license is not entirely predictable because the terms of the license may themselves be ambiguous or uncertain, giving rise to the possibility of variable interpretation and action on the part of milland corporate management. For example, health effects may be unknown or unpredictable, giving rise

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²³ The legal license pressures were presumably the same, both mills being located in the same US state, subject to the same laws and regulations which were administered by the same agencies. In addition, the more laggardly environmental performer appears to have had more economic resources at its disposal than the leading mill. The laggard mill was part of a larger corporation with more economic depth than the leading mill, and the laggard mill corporate profitability in the late 1990s higher than average for our sample. We have no specific economic data for the leading mill which was aprivately held company.

toun certain *public* expectations. Obnoxious odors may be an athemato affluent and middle class communities but may be regarded as "the smell of money" in communities with little industry and employment. The issues that will concern near by residents, the special interest groups that will form in a particular location, the strength of those groups and the alliances they may make, a real lunpredictable. Consequently, the requirements of the social license are interpreted and responded to differently (and of tenresh aped) by different corporate managers.

Elsewhere, we have argued that the perceptions and attitudes of milland corporate management, and their interpretation of their license terms, acts as an important filter through which information about the external licenses is sifted and guided their responsiveness to conflicting external pressures and this suggests that environmental managements tyle—the attitudes and modes of thought thanguided corporate and mill level policy, not social pressure alone, is a key variable indetermining the capacity of social pressures to shape corporate environmental performance, although quite how they do so, is a complex is sue requiring further research.

IV.TheLimitsoftheSocialLicense

Wehavearguedthattoday,at leastineconomicallyadvantageddemocracies,many corporationsnolongerperceivetheirsocialobligationsasnecessarilysynonymouswith theirlegalobligations,andthattheconditionsdemandedbysocialactorsmaybetougher thanthoserequiredbylaw ,resultingin'beyondcompliance' corporatebehavior.But

clearlytherearelimitstohowfarbeyondcompliancecompaniesareableandwillingto go,andthedegreetowhichsocialactorscaneffectivelyimposetheirdemandson companiesreluctanttomeet them. The limitations of the social licensear is efrom each of the three sectors already discussed: social, legal, and economic. First, in order to articulate social demands, social actors must be able to determine that a harm has or might welloccur and must also have the organization alcompetence to develop and effectively articulatedemands to address the harm. Second, legal and political actors must be reasonably responsive to social actors 'demands; that is, they must see the demands of social actors as both important and legitimate. Finally, economic concerns of ten constraint he degree of beyond compliance behavior firms are willing or able to under take.

SocialActors. While obnoxiousodorsorvisibledumpsoremissionstotheairorwater are easilydetectedandcanformthebasisforrallyingandorganizingsocialactors, other kindsofenvironmentalharmsarelessdetectableorhardtotracetoparticularbusinesses.

Insuchcases, the termsofthesocial license may be much less stringent. Of course, even when discharges are not detectable by humans ensors, they may be made detectable by scientists or technicians. But even if that data is available, much depends on the social interpretation of its meaning. For example, advances in analytical chemistry that allowed the detection of even low levels of dioxinin pulp mills' water effluents was a trigger for social activism only because of the pre-existing publicity concerning dioxin's toxic effects. Had this general awareness been absent, find in gdioxin in pulp mill discharges would have resulted in a small foot note in an obscure scientificiournal, rather than a

²⁴Kagan,GunninghamandThorntonopcit.

rallyingcryforaneffectiveGreenpeacecampaign.Wherethegeneralknowledgeand publicconcernaboutparticularadverseenvironment altermsisatlowerlevels,firms' sociallicensepressuresmayliedormant. Onceawareofaharm,communitiesmustbe abletodevelopandarticulateasetofdemandsdesignedtomitigateorredressit.The developmentofdemandsseldomrequiresahigh degreeofcompetence;mostoftenit simplyinsiststhatthefirm"ceaseanddesist"demands,or"dosomethingaboutit". However,theabilitytocometoanagreementastowhattheharmisandwhatthe appropriatedemandsinresponsetoitshouldberequir esadegreeoforganizational competencewhichmaybeabsentinmoremarginal,disorganizedcommunitiesorinless developedcountries. ²⁵

Similarly,oncedeveloped,demandsmustbearticulatedinamannerthatencourages othersocial,legal,andeconomic actorstounderstandandrespondtothem.Incompetent articulationofdemandscanalsoresultindelegitimationofsocialdemandsasextremist orirrational,andpoorcommunitiescanbedisadvantagedinthisregardtoo.

Political/LegalActors salreadyd iscussed, the terms of the social license of tenare enforced indirectly through economic or legal mechanisms. In undemocratic regimes, of ficials and politicians may feel no pressure from failing to respond to public concerns. Thus the type of political regime imeinajuris diction may affect the strength of social license pressures. Similarly, where agencies have been 'captured' by industry, to the demands of social actors may go unheeded. For example, in a previous study, (Gunning ham, 1987)

²⁵SeefurtherDavy(1997).

oneofusfoundtha taverycloserelationshipbetweenanasbestosmineandlocal regulators, enabledbothsetsofofficialstoignore workersandcommunitycomplaints (notwithstandinglevelsofasbestosdustupthatgrosslyexceededtheprescribedlimits), while regulators gave the company prior warning of inspections. (Gunningham, 1987)

Theimportanceoftheharm,orindeeditsveryexistence,mayalsobecontested.For example,someregulatoryofficials mightregard'smelly'odorsemanatingfrompulp millstobesimplya nuisanceandnotanurgent objectofgovernmentaction,whereas othersmay fearthatsuchodormayitselfbeanindicatorofsomemoreserioushealth hazard.

Inothercases, governmentor corporatedecision -makers may be more concerned about the economic consequences of a social demand than it sheal thoren viron mental benefits, especially where such benefits are contested. Thus where the economic consequences of social demands are high, and the health and environmental benefits are small, uncertain, or contested, legal and political actors are likely to be less responsive to social pressures. For example, one of the Canadian mills in our sample chose to ignore community concerns relating to unsightly effluent left drying on the banks of the river downstream.

The companyasserted that the environmental impact was minimal (a view shared by the local regulators) and we reprepared to ignore strong criticism from a local community group, confident that neither the group, nor the community more generally, had suff icient political or legalleverage (or independent scientifice vidence) to inflict significant economic or reputational damage.

EconomicActors. Asalreadynoted, the terms of the social license can only be enforced indirectlythrougheconomicorlegalm echanisms. The principal economic enforcement mechanismistheboycott, which may be carried out by any number of economic actors customers, clients, consumers, investors, or shareholders. Boycotts, however, may be impossibletoorganizeor lesseffecti veagainstcompaniesthatarelessconcernedabout theirreputation, either because they do not have a consumer marketor brandedidentityto protect, or where the harmis not associated with a product directly, but rather with a by productoftheproducti onprocess. For example, part of the explanation for the ability of environmentalactiviststogenerateconcernregardingpulpmillsuseofchlorine, isthat dioxinwaspresentintheproductsconsumersbought -inthediapers, coffeefilters, and tampons they used. Dioxin was not simply abyproduct of diaper production, discharged inaremoteplacetoaffectadistantecosystem. Butmore typically, wheretheharmis associated with the production process alone, rather than the product produced, social licensepressuresarelikelytobelesseffectivelyenforcedthrougheconomicmechanisms.

Although, as described above, the economic license can be used to enforce the demands of social actors, our pulpindustry research suggests that the economic license mor eoften served as a brake on highly significant and costly "beyond compliance" environmental initiatives beyond those which can be justified in "margin of error" or "win -win" terms. The less on is hammered home by the experience of firms that suffered economic license more eoften served as a brake on highly significant and costly "beyond compliance" environmental initiatives beyond those which can be justified in "margin of error" or "win -win" terms. The less on is hammered home by the experience of firms that suffered economic license more eoften served as a brake of the eoften served as

Champion,apaperproductscompanythatinthehigh -pulp-priceerabeginningi nthelate 1980sadoptedan"aggressivestrategy[includingtheexpenditureof\$1billionon environmentaltechnologiesandsystems]formanagingbothregulatoryriskandthe businessriskinherentinantagonisticrelationswithdownstreamneighbors."This included the expenditure of \$330 millioninits Canton, North Carolinamill. The mill's chlorinated organice missions went down to 0.1 kgperton, farlower than EPA's rule eventually required. But by then pulp priceshaddeclined, and the mill had very large capital cost burdens compared to its competitors. In 1999, Champions old the mill to its employees and managers, plus a New York investment fund.

Consider, too the experience of a Canadian firm which made an earlier and larger investment into tally chlorine free (TCF) technology than most of its industry peers. The anticipated demand and price premium for TCF pulp did not materialize. The millended uplosing money, and the company came to be perceived by other pulp mill managers as an example of how not to proceed. The corporate managing director was replaced and his successor reintroduced the conventional emphasisons hor terms conomic targets (although the mill did continue to be a leader in most measures of effluent control).

Understandably, few firms were eager to follow the environmental technology path blazed by such facilities. As long as customers continued to care more about cost, brightness and strength of their paper than about the pulp mills' chlorinated organic numbers, most mills used regulatory requirements as their chiefguide to environmental performance. Moreover, they treated these economic license constraints as fairly fixed.

Theydidnotstrivetogeneratemorecustomerdemandforunbleachedorlessbright paper,inordertoredu cetheenvironmentalimpactofunrecycledbleachingchemicalsin theireffluent.

Asinterpreted by the enforcers of the economic license -investors,lenders,andfinancial analysts -- thee conomic license does not encourage a firm to invest invery cost ly environmentalmeasuresortechnologiesthatdonotimproveproductivityandprofits, unlessgovernmentregulationsprovideassurancethatthefirm'scompetitorswillbe compelledtomakesimilarexpenditures. As Forest Reinhardt (2000, pp. 25, 28) has pointedout, customers in markets for "commodity products' (such as pulp) usually will paypremiumsforenvironmentallydifferentiatedproductsonlyiftheproductslowertheir ownoverallcosts. And even the namarketer of "greener" products will not be nef itifits competitors can easily replicate the same innovation. Thus early mover sto ECF pulp derived little benefits ince most of their competitors, anticipating regulatory tightening, quicklydidthesame. Thus sociallicense pressures are likely to bem orelimitedin industries and companies that produce commodity products.

Conclusion: Social Licenseand Environmental Policy

Toexplaincorporateenvironmentalperformance, we have argued, is it useful for an alysts (and corporate managers themselves) to view business enterprises as simultaneously motivated and constrained by a multi-sided "license to operate." We found that corporate managers, at least in closely -watched industries like pulpand paper manufacturing,

viewedeachfacility'slicensetoopera teasincludinganoften -demanding"sociallicense" alongwiththetraditionaleconomicandregulatorylicenseterms.

Inallthegovernmentaljurisdictionswestudied, wefoundthatsociallicensepressures affectedpulpmills'environmentalperformance inthreemajorways. First, they acted as auxiliary and sometimes potenten for cersofthemill's regulatory licenses, pushing managers to comply fully with permits and sometimes to invest in beyond compliance measures of the "margin of safety" variety. Second, onoccasion, environmental activists helped bring about a "tightening" of regulatory licenses, either by generating political pressure for more stringent laws and regulations or by pushing for more stringent conditions in individual mill permits. Third, the social license was the primary source of "beyond compliance" measures of the "good citizenship" variety, that is, investments that could not be justified in traditional "return on investment" financial criteria or interms of regulatory requirements (current or pending). The seme as ure swere in steadjustified in terms of their reputational consequences.

Thesociallicenseismonitoredandenforcedbyavarietyofstakeholders, who commonly seekleveragebyexploiting avariety of licenseterms. En vironmental groups not only enforce the terms of the social license directly (e.g., through shaming and adverse publicity) but also seek to influence the terms of the economic license (e.g., generating consumer boy cotts of environmentally damaging products and of the regulatory license (e.g., through citizensuits or political pressure for regulatory initiatives). Thus the interaction of the different types of license of tenexceeds the effect of each acting alone.

Thetermsofsomelegallicenseprovisions extendthereachandimpactofthesocial licensebydirectlyempoweringsocialactivistsorbygivingthemaccesstoinformation whichtheycanusetopressuretargetenterprises. Conversely, a companywhich fails to respond appropriately to social license, as frustrated community activist sturnforhelptopoliticians and regulators. At the same time, the interaction between a firms' economic license and the demands of social stakeholdershelp determine how far a firm will go beyond legal compliance.

Thesefindingshaveimportantpolicyimplications, fortheysuggest that business firms' social licenses provide a particular lypowerful point of leverage. Community and environmental advocacy gro upsin particular tend to act as effective watch dogs and de factore gulators, shaming and otherwise pressurizing companies into beyond compliance environmental performance 26. While they can sometimes play this role in the absence of any formor state intervention, their effectiveness, we have observed, is enhanced by various forms of facilitative government regulation. For example, regulatory information-gathering and selfention in facilities is easily accessible and sufficient to allow for meaning fulinter pretation of the data. Rules that require facilities to inform the public of environmentally significant actions and monitoring redress some of the inherent

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²⁶Forexample, in Indonesia, under the PROPER PROKASIH program, regulators rank the performance of individual facilities using surveys, a pollution database of team reports, and indepe ndent audits. A enterprise's pollution ranking is readily understood by the public, being based on a color coding (gold and green for the best performers, black blue and red for those not incompliance). The program has reportedly been very successful in improving the environmental performance of participating firms. See Afsah et al. In our study, we found that in British Columbia, mills were particularly mindful of avoiding breaches which might result in poor standing in a periodic government published report that functioned much as a mill-by-mill environmental scorecard. In the United States, the Toxic Release Inventory, which simply

informationasymmetrie sthatoccurbetweenregulators,regulateesandthepublic,and allowsocialactorstomostappropriatelytargettheiractions ²⁷.

Ourresearchindicatesthatgovernmentactionsthat *procedurally*empowerlocal InNewZealand,millsreportedhaving communities can also have significant effects. become much more responsive to community environmental concerns after communities weregiventhelegalrighttochallengethetermsofeachfacility's"consent"(permit), and therebygainedthepowertodelaytheintr oductionofnewprocessesortechnology.Inan Australianjurisdiction, similar effects flowed from a new law that obligated firms to prepareandcomplywithanenvironmentalimprovementplan,includingacommitment toconsultationwithlocalcommunities ²⁸.InCanadaandtheUS,thepermittingprocess haslongbeenopentothepublicandallowedforpubliccommentonpermitting decisions. Such publicacces shas been extended in the USthrough programs such as ProjectXLandtheEnvironmentalLeadershipProgr am, which make it a condition for providing greater regulatory flexibility, that participating companies provide information to, and consult with, local communities.

Beyondallelse, our research demonstrates that corporate environmental behavior cannot be explained purely interms of instrumental and moral obligations to comply with the law. On the contrary, in an increasing range of circumstances, at least in reputation - sensitive industries, corporations contemplate going beyond compliance for reasons many contractions.

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 $obligates firms \ to \ publish \ their \ total \ estimated \ emissions \ of \ potentially \ hazardous \ chemicals, has \ created \ strong incentive \ storeduce the use of such chemicals.$

²⁷Seeforexample,NationalAcademyofPublicAdministration(2001)whichcallsforaninformation -rich, flexible,andperformancedrivenstrategy.SeealsoClarke(2001).

closely connected with the perceived terms of their social license, albeit that the extent to which they do so may be constrained by economic considerations.

 $^{^{28}} See further Gunningham \& Sinclair (2002).$

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