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COMMENTS REGARDING LIMITATIONS ON PROGRAMMING AVAILABLE FOR BROADCAST ON PAY-TV CHANNELS

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FEDERAL COMMUNICATIONS COMMISSION

Washington, D.C.

In the Matter of

Amendment of Part 76, Subpart G, of the Commission's Rules and Regulations)
Pertaining to the Cablecasting of Programs)
for Which a Per-program or Per-channel)
Charge is Made.

Docket No. 19554

Comments Regarding Limitations on Programming Available for Broadcast on Pay-TV Channels

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"value -- worth perhaps as much as \$20 billion annually -of popular opposition to pay-TV and makes dubious the allure of of the consequences of an all-STV system makes obvious the source welfare of most families. providing free of charge its current array of mass-audience broadcasting system generates consumer satisfaction of enormous such a system for programs that they now receive free. A careful examination matter, American society would be unambiguously worse off if viewers over the free, over-the-air system diversion of programming that is currently available to programming available to viewers, but that would prevent the increment to the number of options and the diversity of permit the development of the industry if it offered a net respect to subscription television (STV or Pay-TV) that would political support for bans or limitations on the development available without charge would mean a massive reduction in the programming. system of broadcasting simply to begin charging viewers for obviously correct in its conclusion that viewers and, for that The premise of these comments is that the Commission is Federal Communications Commission over developing rules with succeeded only in causing essentially These comments are directed towards the concern of the To pay for exactly the same programming now some economists. The realization of this has generated The existing the existing to a pay mode. commercial 11

of pay-TV, and has moved the Commission to try to develop a complicated web of antisiphoning rules intended to prevent the supplanting of the existing commercial system by subscription television.

for detail, it is necessary to assess the economic potential of would lead to an STV system that merely substituted a pay system why this might be so, and whether further relaxation of the rules persistence of this issue before the Commission is that the program siphoning really is. existing commercial system, and how extensive the threat of what kind of programming it would offer, how much it could pay subscription television industries, too stringent to permit current rules are, according to the cable television and of the antisiphoning rules. for a free one. Before examining the effects of the rules in full development of STV. (FCC 74-878) invited first-class programming of the kind available over the how many customers it might reasonably be expected to have, The most recent Further Notice of Proposed Rule Making another round of debate on the details These comments are intended to examine The underlying reason for the

Much of the debate over the effects of STV boils down to a disagreement over the nature of the demand for television: is the effective demand for STV so great that, if given free reins, it would supplent the present commercial system, and is the composition of demand such that a switch to a pay mode would cause

present program types to be supplanted by significantly different programming? While the avidence relevant to these empirical questions is sparse, it is nonetheless sufficient to be interesting.

Hartford system, which used a UHF television station, were operated Los Angeles, Palm Springs and San Francisco. 1 less ambitious systems were also operated in Bartlesville, Chicago. Angeles and San Francisco. in Etobicoke, Ontario, a suburb of Toronto, and a third in Los the misnomer. are often referred to as "experiments," but this is probably on cable television systems. These early attempts to launch STV temporary, STV systems were operated: one in Hartford, another twenty years. authorities in Canada and the United States regarded them as tests that they normally took towards the idea of paying for television were willing to suspend at least temporarily the otherwise dim view and, consequently, when governmental acquiescence was required 2) Hew W The most relevant information comes from the experiences businessmen gained some experience in dealing with the STV systems that have been launched during the past They were experiments only in that (1) government In the early 1960s, In the late 1950s and early 1960s, three rather extensive, albeit All but the 30

¹ In the past few years, several cable television systems have also introduced STV channels; however, almost no information is publicly available on the financial details of their operation.

oriented towards a relatively large segment of the viewing public entertainment (recent popular movies, sports, variety programs) contrary, the staple fare of STV is likely to be quite similar generate more profits on STV than on free TV; (3) while there is championship sports contest or great movies, would be likely to air television, since only a few, unique events, such as a world's channels in large cities and on cable combined to form an STV to that of free TV likely that STV would concentrate primarily on such programming support for network; (2) probably would be economically viable in a few large cities if provide some support for the following conclusions: conclusive evidence on these questions. Nevertheless, the results diversification in programming that would be necessary to provide programs now on free TV switch to pay if given the opportunity, were not designed to provide clear answers to the empirical questions now shown on systems practiced neither the variation in prices nor and would STV significantly affect program diversity? most relevant technical and marketing facets of STV. But these early systems thereby greatly increase television diversity; and (4) over offered on the notion that some types of programs that are not free TV would be economically viable on STV, it is not STV poses only a minor threat to free, over-theto the development of public policy: would popular present UHF independent stations, in a few more (and of other mass communications media): light VHF stations, and relatively widely if STV (L) The early STV

General Economic Viability of a Single Pay Station

of which there are only four. only in areas with more than about 1.75 million television homes, containing more than about 900,000 homes, of which there are only have achieved twice the number of subscribers, a Hartford-like on a weak UHF station that, when operated in the normal commercial system would capture normal profits only in broadcasting areas system's potential penetration, so that on VHF the system would that the well-known reception difficulties in the UHF band halved the system peaked at slightly under 5,000 subscribers while operating required about 75,000 subscribers. to equity calculations, the Hartford system, needed 20,000 subscribers to of Zenith complete financial information been made public. Unfortunately, for only the Hartford system has relatively had a net weekly circulation of about 100,000 homes. summary financial On UHF television, Hartford-style STV would be profitable (the average for U.S. industry), the system would have Radio Corporation, to In order to earn an 18 percent pretax rate of return report given by the FCC By contrast, the Hartford According to the Teco Teco, Inc., a subsidiary Table 1 repro-Assuming

These results should not be taken too seriously. First; they blithely ignore some important influences on the potential market

Econometric analyses of the audience shares of stations have shown the "UHF handicap" to be very close to 50 percent.

Table 1: Restatement on a Per-subscriber Basis of Zenith-Telco's Breakeven Projection for Subscription Television System

590,000	Total fixed expenses
2000	Legal, audit, insurance, travel, telephone, utilities, dues, maintenance
15,000	
88,000	IBM equipment rental
18,000	uthors and
•	Fees to Broadcast Music, Inc., and American
32,000	Lines and facilities
23,000	Program staff
94,000	Administrative salaries
300,000	Station time
(Per station)	(Fixed expense items ^e)
29.56	Gross margin before fixed expense
76.44	variable exper
27.09	bepreciation .
3.10	Supplies, truck, bad debts, other
2.22	fed
7.93	Technical
5.20	Franchise fee
8.15	
22.75	Program product
	Expenses
106.00b	Total income
2.002	Installation
39.00	Decoder rental
65.00	- OI
(Per subscriber)	(Variable income and expense items)

of Docket 11279 on subscription television service, from data supplied of the House Committee on Interstate and Foreign Commerce, subscription television experiment. by Zenith Radio Corporation and Teco, Inc., on the basis of the Hartford Source: Prepared by the Federal Communications Commission staff as part l sess. Hearings before the Subcommittee on Communications and Power (1967), p. 131. \$590,000 + \$29.56 = 20,000 subscribers Reproduced in Subscription Tele-90 Cong.

This gives a total of \$40,000 (of which there are 20,000 at Zenith-Teco assumes 20 percent turnover, or 4,000 per year. installation income, or 52 subscriber the breakeven point).

۵, The figure is somewhat lower than the 1962-64 average because F:

counts on lower installation revenues in the long run.

ņ Five percent of program and rental income

Primarily for decoders.

Some fixed expenses increase slightly with increased income.

as did Hartford since larger cities have more broadcasting and other might be STV systems in larger cities would offer better programming, which cities. there are enormous economies of scale captured by systems in large entertainment alternatives. level of program quality is higher in a larger city. for STV. insufficient even to attract as large a share of TV homes This means, among other things, that the most profitable Because of the publicness of a television broadcast 1 Presumably

2<u>1</u> S number of subscribers is very sensitive to small changes in costs market for syndicated television programs reveals this pattern. typical program rental fee is a fixed dollar amount plus an additional lower -the "program product" Teco financial summary are almost assuredly incorrect. viable sites for STV. such an estimate is cause enough to generate some concern for The fact that Hartford constitutes a single data point for making normal profits falls by more than 30 percent, to about 50,000. five percent higher, the number of subscribers that would yield and revenues. pointed out above, scale economies are sure to make this number ccuracy of the estimates of how many cities are potential second problem with the estimates is that the break-even for a better product --If, for example, revenues per subscriber were is entered as \$22.75 per subscribers; however, But, in addition, some of in larger cities. the costs in the The existing For one, The

true marginal cost of adding a viewer is essentially zero. the sense that nonpayors can be excluded, it is still true that the l Even when a device is installed for "privatizing" broadcasts in

or leave the air Eventually these stations will either have to begin to show profits franchise fee would probably have to be higher than \$300,000 including the Hartford station, in the long run the minimum operated as a normal commercial independent, which reflects the that area. size of its market and the scarcity of channel assignments in The fee represents the net revenue the station could earn if it fee for station time would vary widely from market to market. fee would probably not be collected. television signals were produced competitively, the franchsie and billing system. system, family, paid for the use of the Zenith-Teco signal-scrambling fee per household in that station's market. and in a world in which the devices used to privatize fee Since most UHF independent stations lose money, is an internal transfer within the Teco corporate It is at least in part profits of the STV Finally, the \$300,000 In addition, the

On cable systems, the \$300,000 franchise fee would all but disappear. Transmission costs on cable are \$5 to \$10 per hour at most, so that the transmission cost of operating a Hartford-style STV channel is probably around \$10,000 annually. This cuts the breakeven number of subscribers by 10,000. These subscribers probably could be spread over several different cable systems within a few counties with little effect on costs or the magnitude of break-even operations.

would like to have access to a Hartford-style STV system, offering it would. lution in broadcasting, as many proponents and opponents have claimed conclusion is hardly unimportant. recent movies at \$1.50 each without commercial interruptions, this factor in the industry. roughly on a par with STV is neither much of a threat nor much of a promise, mental cost of activating one more cable channel. exist so that STV can gain access to enough viewers at the increas cable systems with an adequate number of subscribers already to be managed from a single location is also probably viable, so long over a few cable systems that are close enough together geographically profitable that existing VHF stations (even most VHF independents) is probably viable in a few large cities, but it will not be so a result that is almost squarely in the middle of the pro and con are likely to become pay outlets. A single STV operation spread arguments presented at the outset. While these results are hardly definitive, they do suggest THY Of course, to those (including myself) independent stations as an economic But it does not constitute a revo-A single-station STV operation In either case,

General Economic Viability of Network STV

As is the case in conventional broadcasting, networking and national program syndication provide scale economies to an STV system,

and probably would make it economically viable in much of the nation if network STV were offered on existing independent stations and on all but the smallest cable systems.

large cable systems, about half the nation would have access to the market. homes, size market for a UHF STV station in an STV network would be 400,000 audience would subscribe to STV over-the-air, the minimum viable under 10,000. Assuming that five percent of the potentia: minimum number of subscribers needed to achieve normal profits for a UHF station to under 20,000, or on a cable STV system increases the gross margin per subscriber to \$52, and drops the costs for adding another station to the network are zero. covered at the national level, since the additional programming For a national system, the first cost entry in Table 1 would be which is roughly the size of the fiftieth largest television If STV were offered in the fifty largest markets and on This 6

and revenues must now be brought to current dollars since programming costs have, in the past ten years, risen more rapidly than have prices in general. Results of these calculations are shown in Table 2. The revenues per subscriber in Table 1, when converted to 1974 dollars, are about \$175. Assuming that half the TV homes were offered STV and that five percent subscribed and spent as did Hartford subscribers, this yields a total annual revenue for the system of about \$285 million. The costs that depend upon the number of subscribers are,

in current dollars, about \$11.50 for the 1.7 million subscribers projected for the system. Fixed costs per station (including opportunity costs) are assumed to be about \$1 million, which should be close to the amount required from STV for long-term survival of UHF independents, assuming an STV system, like Hartford's, that only absorbs four to five hours per day of a station's time. Cable system costs are based on the assumption that one STV office resembling that of an STV UHF station can operate STV channels on several nearby cable systems. The costs for such a cable operator are the same as for a UHF station except that no station fee is paid but about \$10,000 per cable system is paid for channel use. Microwave interconnection facilities are assumed to be leased by the STV system for distributing programs to stations and cable systems at roughly the cost now charged to networks.

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								TABLE 2:
	Interd	Cable costs (20 regiona	Static	Subscr	Programs	EXPENSES	REVENUES	
	Interconnection	Cable costs (20 regional systems)	Station costs	Subscriber costs	S	či	33.	JAL COST
	g	systems		sts				'S AND R
		,						EVENUES
\$275	20	10	50	20	\$175		(M11110ns) \$285	ANNUAL COSTS AND REVENUES OF NATIONAL STV
				·	····	·	-,	N.S

its release). STV programming for one year of about \$175 million. most movies opportunity costs are essentially zero since the gate potential of old movie for television use are zero, and for most movies even the rights fees are pure rents (the true costs of releasing a two-yearan heroic assumption since (1) other television programs are less represents reasonable estimate of programming costs for STV, \$125,000 per hour of broadcast time. It is assumed that this expensive than movie rights including movies "made for television," during one programming year. benchmark, based upon the prices currently paid by networks for the right to show a two-hour movie three times in prime time first-run movies. Programming costs in Table 2 are, for want of a better are about half as expensive as regular movies, and (2) movie has been close to exhausted within two years after At any rate, Generally, networks pay about \$750,000 for this figure generates a total cost for This works out to be about

As the calculations in Table 2 reveal, a national system along the lines described is right on the borderline of viability. The costs and revenues as calculated are sufficiently close that, given the unreliability of the basic data, the absolute difference of \$10 million is of far less meaning than that the numbers came out so close.

Obviously, the future of STV depends critically on two factors: the extent of growth of cable television and the sensitivity of system revenues to departures from the price structure charged in Hartford. STV on cables would avoid the station fees, as discussed above, and the signal handicaps assocaited with UHF stations.

The relationship between cable and STV may well be symbiotic: in the present regulatory environment with severe restrictions on which stations a cable system may retransmit, cable probably can not attain many more subscribers than ten to fifteen percent of television homes; at the same time, an extensive national STV system may not develop unless it gains access to the inexpensive, VHF-quality channels that could only be provided by an extensive national cable industry.

pricing policies other than those practiced in Hartford might generate greater revenues and more profits. As noted above, the Hartford system engaged in very little price experimentation. Subscribers were charged a flat weekly rate (95 cents) plus an additional charge per program. Eighty-five percent of all programs were priced between \$1.00 and \$1.50 in the evening. Most other programs were priced between \$1.00 and \$1.50 except for the second Ali-Liston heavyweight championship fight (\$3.00), educational programs (50 cents to 75 cents) and a few college and high school basketball games (25 cents to \$1.00). Since different price structures were not tried, there is no reason to believe that the Hartford system found the profit maximizing set of prices. In fact, evidence from the other early systems suggests the contrary.

In the Etobicoke operations, movies of comparable quality were available at \$1.00 and \$1.25. It was reported that the "25% increase in price for motion pictures of high critical

merit. . . proved to be no deterrent."_1/ The audience penetration was about 20 percent for the \$1.25 movies and 23 percent for the \$1.00 movies, a statistically insignificant difference that, in any event, led to higher revenues at the higher prices. Prices for hockey games were increased from \$1.00 to \$1.50 with no change in audience. These data suggest that, within the range of prices charged in the experiments, higher program charges might well increase revenues and profits.

place a value on a year's subscription in advance. to subscribing subscribers. Etobicoke experiment, the introduction of an annual charge -- lower none appear to achieve the higher rates of penetration. 6 than Hartford's -- was associated with a significant loss Ď, The major price deterrent to the popularity of STV appears the annual charge. 2/ for the less frequent user and forces all viewers to The annual charge is an As Table 3 suggests, systems that have especially strong disincentive In the

The fixed annual charge was designed to cover the high expense of the decoder, which precludes nonpayers from viewing and serves to record selections. In Hartford, over a third of total costs were attributable to the decoder. Another advantage of cable is

that by using the two-way capability that is now required on new systems, the process of decoding and billing is much simpler and cheaper. It can easily be shown using Table 1 costs (with much reduced collection costs and with programming costs that are not dependent upon the number of subscribers) and Table 3 revenue and penetration results that the San Francisco and Los Angeles operations, with lower revenues per subscriber but a much higher proportion of the potential audience subscribing, would, on cable systems of any fixed size, be more profitable than would a system based upon the Hartford price structure. 1/Over the air, however, both price structures generate about the same amount of net revenues.2/

Etobicoke, ΛīS Hartford, 1963 Etobicoke, 1962 Etobicoke, 1964 Los Angeles, 1964 Table system & year Francisco, Ψ Penetration and Average Expenditure for Four Subscription Television Systems, Various Years, 1962-64 Penetration^a 45 12 3.5 31 Average annual expenditure 60 100 100 33 (dollars) Annual charge Yes Yes No

Source: Oxtoby-Smith, "Consumer Response to Pay TV -- An Interim Report on the Conclusion of a Study in Los Angeles after STV Initiation" (New York: Oxtoby-Smith, Inc., 1965; processed), p. 29.

a. Penetration is the proportion of households in the service area that subscribe.

^{1 /} Subscription Television, Hearings before the Subcommittee on Communications and Power, House Committee on Interstate and Foreign Commerce 90 Cong. 1st Session (1967), p.370.

Prior to the annual charge, the system had as many as 5,500 subscribers; after its introduction, subscriptions dropped to 2,500, even though the area served by the cable had been expanded. Use of STV, however, was much greater by the smaller group.

^{1/} Hartford generates about three times as much revenue net of variable costs per subscriber, but Los Angeles and San Francisco generate between six and nine times as many subscribers.

Hartford produces revenues that fall between those of Los Angeles and San Francisco, assuming they all face the same cost structure and size of potential audience.

The Composition

might inhere in home television for providing innovative forms of movies and sports events. early systems entertainment or has had the potential enable it to afford to this result transpired. e t to rely on very STV market minimal offerings even instruction are not likely material operating. marginal produce its own programming. ß. O Hi STV has never had enough subscribers to OH. ALS much larger than it was while produced course, costs. systems for Ļ. Whatever special possibilities thus other Ω. H. not surprising that far have media and available ç emerge until Instead, it been recent the

programs were videotapes of performances in theatres and nightclubs other than the standard fare of movies and sports. attracted disastrous discussion programs featuring Yale professors, stations other than the STV outlet. not available or of zero). educational The Hartford system did attempt to provide occasional programs programs offered one viewer at 50¢, another on politics had an audience programming. 5 office Hartford results in other cities The because Hartford station produced several (one program on the city lacked The principal exception on independent the with, perhaps predictably, American economy any independent Most of these stations but

rating and price

in each

type, and the average revenue per program

It shows the

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Table 4

the Hartford programming

into several

categories.

					•	Audien	ce ratings	
		Distributl separate			bution of adcasts	Percent of sub-	Percent of sub-	Revenue per program for all showings ^d
Program category	Average charge ^a	Number of programs	Percent of programs	Number of showings	Percent of showings	each	scribers viewing all showings	(thousands of 1963 dollars)
Movies	\$1.03	432	72.1	1,537	86.5	5.6	20.1	559
Sports	1, 37	79	13.2	79	4.4	9.8	9.8	
Championship boxing	2.06	6	1.0	6	0.3	63.3	63.3	363
College basketball	0.81	ž	0. 3	ž	0.1	13.6	13.6	3,521
High school basketball	0.25	ī	0.2	1 .	0.1	10.7	10.7	297
Professional basketball	1.00	21	3.5	21	1.2	6.6	6.6	72 178
College football	1.05	5	0.8	5	0.3	6.2	6.2	
Professional hockey	1.07	44	7.3	44	2.5	5.3	5.3	176 153
Entertainment productions	1.60	35 .	5.8	97b	5.5	3, 1	8.7	· -
Concerts, opera, and ballet	1.50	6	1.0	13	0.7	10.6	12.4	376
Popular music and variety	1,48	15	2.5	48	2.7	4.1	13.1	502
Broadway plays and other drama	1,62	ii	1.8	34	1.9	2.4	7.5	523
Miscellaneous	2.40	3	0.5	3	0.2	1.7	1.7	328 .110
Educational features	0.71	50	8.3	57	·3. 2	0.7	0.8	15
Medical presentations (limited to		ĺ		· 1				
100 subscribing doctors)	1.50	3	0.5	6	0.3	9.3°	18.7°	• • •
All	1.08	599	100.0	1,776	100.0	5.5	16.4	480

Source: From, or derived from, data in "Joint Comments of Zenith Radio Corporation and Teco, Inc.," in Subscription Television (1967), pp. 255 ff. Figures may not add to totals due to rounding.

Average charge during the second year of operation.

In cited source, total number of entertainment showings adds to 98, but summary table lists 97.

Percentage of the 100 doctor-subscribers; the 100 doctors were about 2 percent of all subscribers.

Based on subscriptions equal to 4.5 percent of 60 million television homes.

that would have been generated had the Hartford system been offered to everyone -- 60 million television homes in 1963 -- and had subscriptions nationally been 4.5 percent of all homes offered service, as was the case at the end of the Hartford experiment. Again, the exact figures in the last column have little meaning except for their rough magnitudes, for they are extremely sensitive to the assumptions about the number of subscribers. These numbers are also in 1963 dollars: 1974 equivalents are about two-thirds higher.

No attempt has been made to provide categorizations of movies. The movies that were offered were relatively new, and representative of those that had been shown in local theatres in the few years before and during the experiment. Foreign language films and avant garde productions were not presented. Since others have shown that typologies of movies are essentially useless as measures of quality or attractiveness. 1 on attempt was made to analyze STV revenues according to such breakdowns.

Among the remaining program types, further analysis is severely limited by the relatively small number of programs offered in most groups. For example, the proponents of STV cite serious

much average results within categories more reliable and allowing for more programs other than movies would have been offered, making the results can be generalized would have been much greater if many at the low price of 25¢, and seven collegiate Again, Hartford offered only one high school basketball game, and that as a device for presenting local college and high school sports events sports category, one use of STV that is frequently mentioned is present, but in Hartford only six programs were offered in the very music and drama as categories of programs that STV is likely confidence class of broadway general class of opera, concerts and ballet, and only eleven in more detailed categorization. that can be placed in plays and other dramatic productions. the extent to which the events. In sum, Hartford In the the

The results for high school basketball are really not of any value other extreme, professional hockey did poorly on Hartford best events in theatres rather than over free television. the fact that only boxing regularly offers the video version of sporting event was championship boxing, which is consistent with consumer tastes, with a few exceptions, produce results on STV that tainment generated the most revenue per program. are similar to those on free television. high rating at a very low cost for one game it does poorly on free TV With this caveat in mind, the Hartford data do indicate that sports on television, ranking just below televised fishing). (hockey has the lowest audience rating Movies and popular enter-The most popular STV, just At the

e few programs of a more serious nature also did reasonably

New Evidence and Old Theories," AER V. LXI (May 1971). The authors found that the seven-way classification of movies practiced by the industry made no contribution to explaining the audience ratings of movies on network television. They concluded that if distinct groups of viewers according to program tastes exist, the dimensions of quality on which their tastes differ are other than those measured by movie type.

well. The serious music category was just below popular entertainment in revenues, while dramatic productions generated 50 to 60 percent of the revenue of the popular items -- which, incidentally, corresponds roughly to the difference in audience ratings on free television between serious dramatic porductions (such as Hallmark Hall of Fame) and movies.

Since most of the programs on the Hartford system were of about 90 to 120 minutes duration, a rough approximation of their costs would be about \$350,000 to \$400,000 for each program in 1974 dollars, which is roughly the prorated current cost of regular series and made-for-TV movies on the networks. For purposes of comparison with Table 4, this is a cost of \$180,000 to \$250,000 in 1963 dollars. For movies, the 1963 equivalent price is less than \$500,000.

which has not generally been recognized, and indeed once again proponents and opponents. dramatic productions. which were not tested in Hartford and probably would do better) and borderline of viability, movies, boxing, serious music and popular variety programs are most The next category, comprising program types that are on likely to generate revenues adequate to cover costs on national STV. ccurse, Compared with this benchmark, the Hartford data suggest that squarely in for the major professional sports other than hockey, the middle of the expectations of most These results emphasize a dual role for STV includes most other sports events (except, the

Pirst, serious music did well in Hartford. Drama, however, had only mixed success: The average program, shown three times, generated about \$325,000 in revenues on a national scale, about equal to the cost of made-for-TV movies. A few programs did very well, such as lighter Broadway productions ("Wake Up Darling" and "Tchin-Tchin"), while most of the more serious plays (such as "Hedda Gabbler" and "Androcles and the Lion") drew very small audiences.

and performers is, of course, inestimable this would actually go to the STV system and how much to producers excess of production costs of at least \$1.5 million. concerts of the leading orchestras, might generate revenues symphony concerts, featuring three broadcasts each of ten separate several times these figures on a national STV system. order of \$50,000 to \$100,000, while the producers could earn revenues play, neglecting payments to the performers, would cost on properly a single performance of the Metropolitan Opera or a Broadway the medium were a great financial success. greatly on cost estimates -- and the extent to which program costs contain rents that producers would not demand from STV unless The viability of this heavier programming probably depends very To film and broadcast How much of A series

The second aspect of STV, generally neglected, is the overwhelming support for several categories of lighter entertainment. The Hartford station, with its low budget, could not experiment with the staple of free TV, the regular series, but all other categories found in the usual TV fare did very well, earning revenues that easily would cover production costs.

The Experiments and the Antisiphoning Rules

penetration and viewing figures assumed are very high -revenues) would decline only by 5 percent. While such a loss times as high as Hartford. A final result much closer to the roughly the current quality of network fare. existing networks, would be viable, all producing programming of at most, two or three STV systems, in addition of the three would systems that could be formed, or received by a viewer, competition Since no technical limit would restrict the number of cable STV STV systems would raise revenues of \$720 million from subscribers. would reduce profits in the network system by about one-fourth, and viewed it half of the time, network audiences (and advertising than 4 percent, of these homes subscribed to STV at \$10 monthly, Hartford results, only a small fraction of viewers are willing return on it would still leave the industry a 45 percent after-tax rate of in cities with over-the-air STV, and if 20 percent, rather charged. Even if half the nation were wired to cable or living to pay the steep prices -- about \$12 monthly -- that experiment network systems are highly profitable and, according to the experience supplies two guides on this issue: the existing ventional programming to STV is probably unwarranted. that the concern over substantial diversion of popular, con-The overriding implication of the preceeding analysis is cause them to multiply until profits per system dwindled to for business generally, investment, significantly above average. Meanwhile, the With costs \$250 million annually Of course, the Past

Hartford projection is a more reasonable expectation.

shows now generate from advertising on free network TV. to pay nearly \$200 a year for pay programs in order for revenues they are large enough that each STV subscriber would per showing. most popular network shows, to watch, say, a single showing of an hour-long episode of the subscribe to STV, and if 12 percent of these are willing to pay \$1 subscribers or are offered over-the-air STV, if 10 percent of these be that high. Substantial program erosion is unlikely even in the most STV environment. These revenues are substantially less than the the STV revenues would be about \$360,000 If 30 million homes become cable have Yet

The preceding analysis goes much further than is necessary to justify a permissive attitude toward STV. As long as channel capacity on cable is reasonably large, and as long as a large fraction of the nation remains unwired, the alleged dangers of STV to the existing broadcasting system are illusory.

The principal exceptions to this generalization are a few highly popular, special events such as major athletic championships. The redeption of the STV audience to chamiponship boxing bears out the possibility that these especially attractive events might draw more revenues from STV. Such events are sufficiently infrequent that large numbers of households could affort to pay a substantial charge for viewing them without experiencing disastrous consequences with respect to the family entertainment budget -- which is not the case with the regular fare of television, the regularly

scheduled movie, sports event or series. Given the political climate with respect to STV, it is unlikely that the industry would attempt to divert these events from commercial television, but even so the Commission is undoubtedly correct in ruling that such events can not switch to STV.

1ead over a year, especially if the film is nominated for major and scheduling showings, prevents them from having access to many are not feasible. release to STV much in advance of the end of the major theatre runs exhibition as long as that is possible, so that negotiations for to keep the picture earning the high revenues from theatre awards. Obviously, the motion picture companies would prefer lucrative theatre exhibition is likely to be possible for well after a picture is released. For the more interesting pictures television or STV competitors for movie rights immediately used by broadcasters. it denies STV access to programming resources that are not prevents competition between STV and broadcasters, but because the best films The point of the rules relating to motion pictures is less time required by STV systems for negotiating the rights is simply too valuable to make either commercial The current Thus, rule is costly to STV not because it First run theatre exhibition of motion the two-year limitation, given the

All of the alternatives mentioned in the Further Notice will give STV systems more flexibility in scheduling movies.

television. rather than a decline in the programming available to commercial of both movies and programs made directly for television, the response will be a substantial incréase in the production profitability of the movie and program production industries. or independent stations. business by the next, and with several times as many programs firms selling their first program in one year going out of in the industry to changes in the demand for its product. theatres -- is highly competitive and able to respond quite rapidly for sale each spring as are eventually purchased by networks specials, made-for-TV movies and movies exhibited first in program production industry -- firms that produce series, will have an appreciable impact upon the availability of pro-It is highly doubtful that any relaxation of the 2-10 year rule particularly the most popular movies that have long theatre runs. for commercial television. Most importantly, the is very high, with about forty percent of the If STV significantly increases the Mortality of firms

Another important feature of the current television industry is that owners of the rights to motion pictures apparently do much better at bargaining with networks over exhibition fees than do series producers: the maximum share of advertising income from movie showings on television that could be paid to owners of movie rights without causing networks to lose money on moives has been estimated as 45 percent; the actual

since it can be at least as inexpensive and convenient as the and convenience (theatres are closer to home and seldom have second and third run exhibitions. The main attractions of the long waiting lines). economy (ticket prices are lower than for first run showings) second and third run, neighborhood theatre exhibition are motion picture companies to capture the relatively low-priced of STV would be to provide a quicker, more effective way for theatres several years after release, then the principal effect serves primarily as a replacement for showings at neighborhood release to STV is towards the end of the first theatre run and in theatres and showing on commercial television. that STV would actually reduce the average wait between release the first run of pictures. that motion pictures are being withheld from television now well past to television for several years after it is made, it is apparent of the movie producers. roughly at the point when networks can finally outbid the income This means that holders of movie rights release movies to television payments for movies average over 40 percent of advertising income. $1 \neq 1$ from theatre exhibition -- that is to say, largely on the terms STV is well suited to satisfy this market, Since the typical movie is not released In this environment, it is conceivable If the

local second run theatre. At any rate, the STV industry sees its primary market for movies as being in the first few years after release, in competition with the neighborhood run. If STV is successful, it will reduce the duration of the neighborhood run by substituting for some of the latter's business, and thereby lead to an earlier release for commercial television. If STV does not succeed in reducing the second and third run, then it will have no effect on the release date to commercial television, which with a minor STV industry will continue to be determined by the duration of lucrative theatre exhibitions.

audiences on free television. of even this magnitude can have no appreciable affect on movie when it is offered free on commercial television, an STV industry that some households are likely to view a movie a second time of the TV households will view the typical movie on STV. Considering percent of subscribers watch any given movie, then about 3 percent buy it, and if, as was the case in Hartford, less than twenty-five means that an STV business that is extremely successful will if twenty-five percent of those offered the service acutally commercial television. still leave an enormously attractive market for movies on vast majority of Americans not subscribing to the service. projections of the size of the STV market still leave the Finally, it bears repeating that the most optimistic If half the nation is offered STV, This

^{1/} See Noll, Peck and McGowan, Economic Aspects of Television Regulation, p. 67.

Consequently, it is difficult to find any good reason to deny STV access to movies. There is adequate programming for all modes of exhibiting films, and the impact of even a fantastically successful STV industry on commercial television is likely to be so small as to be imperceptible, and may, for the reasons given above, actually bring movies to commercial television sooner after release than is now the case.

Pinally, the rules with respect to sports events are perhaps the most difficult to deal with, in part because of the fanatical attitude of most people towards sports. If STV offers a threat to commercial television in any program category, it is in sports. In fact, several sports events have already switched in that they are exhibited through closed-circuit television in theatres. For instance, the last World Cup soccer matches, which would not rank high on most Americans' lists of sports events, were shown only in theatres, whereas four years ago the matches were carried by commercial network. Similarly, championship boxing events long ago abandoned free television for the theatre.

Nevertheless, STV has an important potential benefit with respect to sports. If STV can be an important source of revenue to sports enterprises, it will make possible the emergence of new leagues in the professional team sports.

Thusfar, the emergence of new leagues has been the only successful mechanism for introducing competition into professional sports, to the benefit of players (teams now compete for player

(competition among leagues increases the availability of games on television and in person) and of broadcasters (the World Football League and the Hughes Television Network have given independent stations the opportunity to participate in the presentation of major league professional football and, thereby, capture very handsome prime time ratings in competition with the networks). Thus, if STV can be used as a vehicle for promoting competition in sports without actually causing sports broadcasts on commercial television to disappear, it will constitute a major advance to all concerned except those sports enterprises that would lose a monopolistic position in selling tickets and broadcasting rights.

The difficulty in devising a rule for sports is the disparity of practices among sports enterprises in broadcast policies.

Even within the same sport; some teams televise many times as many games as others. Only in football, where all regular season games are sold as parts of national broadcasting contracts, is the practice relatively uniform, but even there teams vary considerably in their policies with respect to preseason games. It does not seem to make much sense to deny teams access to the STV market if they have broadcast a large number of games, while teams that have steered clear of television are given essentially

unlimited access to STV:

One way out is a rule along the following lines. Let every team sell some proportion of its games to STV, such as one-third or one-half. The normal practice of teams is to televise few, if any, home games, on the theory that free telecasts destroy home game attendance, but to televise a substantial number of road games. Thus, a sensible rule would be to allow all or nearly all of home games to be sold to STV, but to reserve all or nearly all road games for commercial television, unless, for a fairly long period, even road games were not televised.

on a delayed basis, showing it a week after the event takes STV would still be able to pick up the earlier matches. Or, if a revised antisiphoning ruling might appear as follows: that a tennis tournament or a track meet. commercial television decides to televise the NCAA track meet the finals of the U.S. Open Tennis Tournament at Forest Hills, already appearing in part on commercial television if it STV can bargain for the rights to any part of any event that is interested in the whole affair, from the very beginning. Thus, who might be a potential STV customer, would potentially be on each of the last two days of the tournament, the finals of stages of a tournament: chooses. telecasts of individual sports focus only on the closing Individual sports require a different type of rule. Thus, if commercial television elects to televise only the last few holes of a golf tournament The true sports enthusiast,

place, STV would be permitted to produce a live broadcast of the same event. The key to the rule would be to prohibit STV to interfere with broadcasters in obtaining rights to an event, but to supplement the broadcast service should there be a market for more complete coverage. In addition, of course, the normal antisiphoning rule would apply in that a particular tournament could not switch from commercial to pay television without waiting for two years.

in sufficient numbers to devote a large portion of their viewing in any event, consumers simply are not going to be willing free exhibition, undercutting the demand for STV series, and, step in the right direction would be to permit STV exhibition of rates among actors, there is simply no good reason to prevent picked up by the networks simply because the amount of national The program production industry can always supply good series threat at all that popular series will massively shift to STV the commercial networks. As argued above, there is simply no cast of characters that is rejected as a pilot or cancelled by new episodes of any series or sequence of movies with a continuing STV from having access to these types of offerings. A minimal the programming industry and the extraordinarily high unemployment network time is so limited. is highly dubious. other type of programming, the necessity of restricitve rules discussed in the Further Notice, but here, more than for any series are made into pilots, and many promising ideas are not The last category of programs, regular series, are not Each year literally scores of ideas for Given the resources available to

Certainly it is a mistake to foreclose the possibility of such be able to display considerable originality in its offerings in television but nevertheless fall within the "regular series" rubric. ways that really offer no direct competition with commercial as a regular series. market for programming to be able to support productions as costly does not appear likely, since STV is too small a factor in the significant contribution to television diversity. Right now, this attract a small, paying audience, have very devoted audiences who loudly express disapproval at the ç a series that is not designed to maximize the size of the audience small but very loyal audiences may be willing to pay enough for innovative behavior. cancellation. cancel one or time to pay television. make it commercially viable. two o Ħ STV can create a regular series format that can series that have low ratings but that nonetheless But in the future, But in some specific cases, relatively Every year the commercial networks it might thereby make as it grows, STV might

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